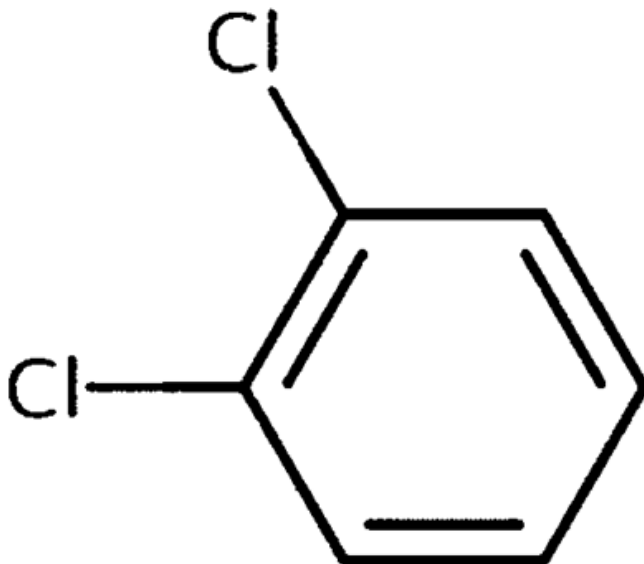

**Draft Data Quality Evaluation and Data Extraction Information for
Physical and Chemical Properties for
o-Dichlorobenzene**

Systematic Review Support Document for the Draft Risk Evaluation

CASRN: 95-50-1



June 2026

This supplemental file contains information regarding the data extraction and evaluation results for data sources that were considered for the *Draft Risk Evaluation for o-Dichlorobenzene* that underwent systematic review. EPA used the TSCA systematic review process described in the *Draft Systematic Review Protocol Supporting TSCA Risk Evaluations for Chemical Substances* (also referred to as the '2021 Draft Systematic Review Protocol'). The systematic review steps are further described in the *Draft Draft Systematic Review Protocol for o-Dichlorobenzene*. EPA conducted data extractions and data quality evaluations based on author-reported descriptions and results; additional analyses (*e.g.*, statistical analyses) potentially conducted by EPA are not contained in this supplemental file. Additionally, the overall quality determination (OQD) for each reference represents the data as a whole for each study, and not for individual metric domains within a study.

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3828879	Marshall, K. A., Pottenger, L. H. (2016). Chlorocarbons and chlorohydrocarbons. :1-29.	227
1944492	NTP, (1985). Toxicology and Carcinogenesis Studies of 1,2-Dichlorobenzene (o-Dichlorobenzene) (CAS No. 95-50-1) in F344/N Rats and B6C3F1 Mice (Gavage Studies). 255:1-195.	228
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5348704	Rumble, J. R. (2018). 1,2-dichlorobenzene. :3-16.	233
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10225162	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.	238
5926121	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.	246
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5177139	Krishnamurti, R. (2001). Chlorinated benzenes.	267
6655445	Rumble, J. R. (2018). Permittivity (dielectric constant) of liquids.	268
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4913592	Scharping, H., Zetzsch, C. (1985). Substituent effects in the VUV absorption-spectra of monochlorobenzene and ortho-dichlorobenzene, meta-dichlorobenzene, and para-dichlorobenzene. Journal of Molecular Spectroscopy 112(1):8-17.	270
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1990700	Harner, T., MacKay, D. (1995). Measurement of octanol-air partition coefficients for chlorobenzenes, PCBs, and DDT. Environmental Science & Technology 29(6):1599-1606.	271
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Study Citation:	Agroscience,, E.E., LLC, (2022). Determination of water solubility.			
OECD Harmonized Template:	Physical Form or State			
HERO ID:	10290671			
EXTRACTION				
Parameter	Data			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; None			
Solvent, Reactivity, Storage, and Stability	NA; NA; ambient in darkness; NA			
Radiolabel, Source, State, and Purity	NA; Sigma-Aldrich; Colorless liquid; 99.7% (GC) Notes: NA			
Results Value	Colorless liquid			
Results Details	NA			
EVALUATION				
Domain	Metric	Rating		Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

Study Citation:	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.
OECD Harmonized Template:	Physical Form or State
HERO ID:	3981013

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; Dichlorobenzene, o-
Confidentiality, Type, and Guideline	none; not specified; not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Results Value	liquid
Results Details	not specified

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance			
	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability			
	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other			
	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation:	IARC, (1999). Some chemicals that cause tumours of the kidney or urinary bladder in rodents and some other substances.
OECD Harmonized Template:	Physical Form or State
HERO ID:	666726

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	none; not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; liquid; NR Notes: NR
Results Value	Colourless liquid
Results Details	NR

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance			
	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties.
Domain 2: Test Reliability			
	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other			
	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Citing HERO ID 5185266

Study Citation:	(1994). Locating and Estimating Air Emissions from Sources of Chlorobenzenes (Revised March 1994).
OECD Harmonized Template:	Physical Form or State
HERO ID:	1998192

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; NR
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; liquid; Not Reported
Results Value	liquid colorless
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of specific references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: The values are from one of five references:1. U.S. Environmental Protection Agency, Investigation of Selected Potential Environmental Contaminants: Halogenated Benzenes, EPA-560/2-77-004, Office of Toxic Substances, Washington DC, July 1977, pp. 6-43. No HERO ID.4. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volume I, Lewis Publishers, Inc., Chelsea, Michigan, 1990. HERO ID 82189.5. Reid, R.C., Prausnitz, J.M., and T.K. Sherwood, The Properties of Gases and Liquids, Third Edition, McGraw-Hill Book Company, New York, NY, 1977, p. 184. No HERO ID.6. Windholz, M. (ed.), The Merck Index, Tenth Edition, Merck and Company, Rahway, NJ, 1984. pp. 298, 444, 677, 1377. No HERO ID.7. Weast, R.C. (ed.), CRC Handbook of Chemistry and Physics, 59th Edition, CRC Press Inc., West Palm Beach, FL, 1978, pp. C-153, 157, 171. HERO ID 18783.8. Kirk-Othmer Encyclopedia of Chemical Technology, Volume 5, Third Edition, Wiley-Interscience Publication, New York, NY, 1980, pp. 797-808. No HERO ID.

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized Template:	Physical Form or State
HERO ID:	9641569

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; Not Reported
Confidentiality, Type, and Guideline	Not Reported; Not Reported; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Value	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from Lewis, R.J. Sr.; Hawley's Condensed Chemical Dictionary 14th Edition. John Wiley & Sons, Inc. New York, NY 2001., p. 359 (HERO ID: 196089)

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.
OECD Harmonized Template:	Physical Form or State
HERO ID:	192177

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; Liquid; NR Notes: NR
Results Value	Colorless to pale-yellow liquid; pleasant, aromatic odor.
Results Details	Not Reported

		EVALUATION		
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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Study Citation:	U.S. EPA, (1980). Ambient water quality criteria for dichlorobenzenes.
OECD Harmonized Template:	Physical Form or State
HERO ID:	1267074

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; liquid; Not Reported
Results Value	liquid
Results Details	Not Reported

		EVALUATION		
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: Weast, R.C., et al 1975. Handbook of Chemistry and Physics. 56th ed. CRC Press, Cleveland, Ohio. [Old edition of desk reference, unclear if this was previously extracted]

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926121

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Value	liquid
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available and peer-reviewed database.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Lewis, R.J. Sr. (2001). Hawley's Condensed Chemical Dictionary 14th Edition. John Wiley & Sons, Inc. New York, NY. P. 359

Study Citation:	O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926377

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Value	liquid
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5: Databases	High	Data is from a recognized data collection where data are peer-reviewed by experts in the field.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926267

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Value	liquid
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that references a peer-reviewed source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: NIOSH

Study Citation:	Rumble, J. R. (2018). 1,2-dichlorobenzene. :3-16.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5348704

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Value	liquid
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5: Databases	High	Data is from a recognized data collection where data are peer-reviewed by experts in the field.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926121

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details	pleasant odor

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available and peer-reviewed database.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Lewis, R.J. Sr. (2001). Hawley's Condensed Chemical Dictionary 14th Edition. John Wiley & Sons, Inc. New York, NY. P. 359

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926267

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details	pale-yellow w/pleasant, aromatic odor

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5:	Databases	High	Data is from a publicly available database that references a peer-reviewed source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: NIOSH

Study Citation:	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.
OECD Harmonized Template:	Melting Point
HERO ID:	3981013

EXTRACTION

Parameter	Data
Melting Point	-17 - °C
CASRN and Test Material	95-50-1; Dichlorobenzene, o-
Confidentiality, Type, and Guideline	none; not specified; none
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Results Details Methods	not reported
Standard Deviation Results	not reported
Results Details	not reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Melting Point
HERO ID:	5926426

EXTRACTION	
Parameter	Data
Melting Point	-17.6 - -14 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Measured conditions were not reported; 8 values were reported in Reaxys; 6 of these values were reported in the range of -17.6 to 16.7°C; 2 data points were outside the range.
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	IARC, (1999). Some chemicals that cause tumours of the kidney or urinary bladder in rodents and some other substances.
OECD Harmonized Template:	Melting Point
HERO ID:	666726

EXTRACTION

Parameter	Data
Melting Point	-16.7 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	none; not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Results Details Methods	NR
Standard Deviation Results	NR
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Citing Lide, D.R., ed. (1997) CRC Handbook of Chemistry and Physics, 78th Ed., Boca Raton, FL, CRC Press, p. 3-39.

Study Citation:	Krishnamurti, R. (2001). Chlorinated benzenes.
OECD Harmonized Template:	Melting Point
HERO ID:	5177139

EXTRACTION

Parameter	Data
Melting Point	-16.97 - °C
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	None; not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Results Details Methods	NR
Standard Deviation Results	NR
Results Details	NR

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Marshall, K. A., Pottenger, L. H. (2016). Chlorocarbons and chlorohydrocarbons. :1-29.
OECD Harmonized Template:	Melting Point
HERO ID:	3828879

EXTRACTION

Parameter	Data
Melting Point	-17 - °C
CASRN and Test Material	95-50-1; Not Reported
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Kirk-Othmer Encyclopedia of Chemical Technology. Copyright # 2016 John Wiley & Sons, Inc. All rights reserved.DOI: 10.1002/0471238961.1921182218050504.a01.pub3

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance			
	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability			
	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to information from this secondary source.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to information from this secondary source.
Domain 3: Other			
	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Kirk-Othmer Encyclopedia of Chemical Technology. Copyright # 2016 John Wiley & Sons, Inc. All rights reserved.DOI: 10.1002/0471238961.1921182218050504.a01.pub3

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized Template:	Melting Point
HERO ID:	9641569

EXTRACTION

Parameter	Data
Melting Point	Not Reported
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	heat of fusion: 21.01 cal/g

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from cited from U.S. Coast Guard, Department of Transportation. CHRIS - Hazardous Chemical Data. Volume II. Washington, D.C.: U.S. Government Printing Office, 1984-5.

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.		
OECD Harmonized Template:	Melting Point		
HERO ID:	9641569		
EXTRACTION			
Parameter	Data		
Melting Point	Not Reported		
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene		
Confidentiality, Type, and Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported		
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported		
Results Details Methods	Not Reported		
Standard Deviation Results	Not Reported		
Results Details	heat of fusion: 86.11 J/g		
EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High	

* Related References: cited from Kirk-Othmer Encyclopedia of Chemical Technology. 4th ed. Volumes 1: New York, NY. John Wiley and Sons, 1991-Present., p. V6: 89 (1993) (HERO ID: 5348450)

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.
OECD Harmonized Template:	Melting Point
HERO ID:	192177

EXTRACTION

Parameter	Data
Melting Point	1 - F
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Results Details Methods	NR
Standard Deviation Results	NR
Results Details	Reported as freezing point

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	Data is from a recognized, peer-reviewed data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Melting Point			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Melting Point	Not Reported			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Results Details Methods	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Enthalpy of fusion: 12.4 kJ/mol at 255.9 KMethod: Differential scanning calorimetry			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		NEED TO FIX		

* Related References: cited from Liu, Kewen; Dickhut, Rebecca M., Saturation vapor pressures and thermodynamic properties of benzene and selected chlorinated benzenes at environmental temperatures, Chemosphere, 1994, 29, 3, 581-589, [https://doi.org/10.1016/0045-6535\(94\)90445-6](https://doi.org/10.1016/0045-6535(94)90445-6).

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Melting Point			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Melting Point	Not Reported			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Results Details Methods	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Enthalpy of fusion: 12.922 kJ/mol at 255.65 K			
EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substanc
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination			NEED TO FIX	

* Related References: cited from Narbutt, J., Die Spezifischen Warmen und Schmelzwarmen der dichloro-, chlorbrom-, dibrom-, bromjod-, und dijodbenzole. I, Z. Elektrochem., 1918, 24, 339-342.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Melting Point
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Melting Point	256.15 - K
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	0.05 K
Results Details	reported as normal melting point

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from McDonald, R.A.; Shrader, S.A.; Stull, D.R., Vapor Pressures and Freezing Points of 30 Organics, J. Chem. Eng. Data, 1959, 4, 311.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Melting Point			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Melting Point	256.0 - K			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Results Details Methods	drop calorimeter			
Standard Deviation Results	0.5 K			
Results Details	reported as normal melting point			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: cited from Narbutt, J., The specific heats and heats of melting of dichlorobenzene, bromochlorobenzene, dibromobenzene, bromiodobenzene and diiodobenzenes: I, Z. Elektrochem. Angew. Phys. Chem., 1918, 24, 339-42.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Melting Point
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Melting Point	255.20 - K
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	0.2 K
Results Details	reported as normal melting point

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from Donnelly, J.R.; Drewes, L.A.; Johnson, R.L.; Munslow, W.D.; Knapp, K.K.; Sovocool, G.W., Purity and heat of fusion data for environmental standards as determined by differential scanning calorimetry, *Thermochim. Acta*, 1990, 167, 2, 155, [https://doi.org/10.1016/0040-6031\(90\)80476-F](https://doi.org/10.1016/0040-6031(90)80476-F).

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Melting Point
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Melting Point	256.13 - K
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	0.1 K
Results Details	reported as normal melting point

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination **High**

* Related References: cited from Witschonke, C.R., Freezing point and purity data for some organic compounds, Anal. Chem., 1954, 26, 562-4.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Melting Point
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Melting Point	256.0 - K
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	0.1 K
Results Details	reported as normal melting point

		EVALUATION	
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High
	Metric 2:	Appropriateness	High
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium
	Metric 4:	Reliability/Analytical Method	Medium
Domain 3: Other	Metric 5:	Databases	High
	Metric 6:	Models	N/A

Overall Quality Determination

High

* Related References: cited from Dreisbach, R.R., Physical Properties of Chemical Compounds, Advances in Chemistry Series No. 15, Am. Chem. Soc.: Washington, D. C., 1955.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Melting Point
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Melting Point	256.0 - K
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	2.0 K
Results Details	reported as normal melting point

		EVALUATION	
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High
	Metric 2:	Appropriateness	High
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium
	Metric 4:	Reliability/Analytical Method	Medium
Domain 3: Other	Metric 5:	Databases	High
	Metric 6:	Models	N/A

Overall Quality Determination

High

* Related References: cited from Timmermans, J., Researches in Stoichiometry. I. The Heat of Fusion of Organic Compounds., Bull. Soc. Chim. Belg., 1935, 44, 17-40

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Melting Point			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Melting Point	Not Reported			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Results Details Methods	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Enthalpy of fusion: 12.93 kJ/mol at 256.5 K			
EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		NEED TO FIX		

* Related References: cited from Liu, Kewen; Dickhut, Rebecca M., Saturation vapor pressures and thermodynamic properties of benzene and selected chlorinated benzenes at environmental temperatures, Chemosphere, 1994, 29, 3, 581-589, [https://doi.org/10.1016/0045-6535\(94\)90445-6](https://doi.org/10.1016/0045-6535(94)90445-6).

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Melting Point
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Melting Point	256.14 - K
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	0.05 K
Results Details	reported as normal melting point

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination **High**

* Related References: cited from Witschonke, C.R., Freezing point and purity data for some organic compounds, Anal. Chem., 1954, 26, 562-4.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Melting Point
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Melting Point	256.12 - K
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	0.05 K
Results Details	reported as normal melting point

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from Dreisbach, R.R.; Martin, R.A., Physical Data on Some Organic Compounds, Ind. Eng. Chem., 1949, 41, 2875-8.

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Melting Point
HERO ID:	5926121

EXTRACTION

Parameter	Data
Melting Point	-16.7 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a recognized data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: O'Neil, M.J. (Ed.). 2006. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry. P. 518.

Study Citation:	O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template:	Melting Point
HERO ID:	5926377

EXTRACTION

Parameter	Data
Melting Point	-17.03 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Melting Point
HERO ID:	5185293

EXTRACTION

Parameter	Data
Melting Point	-16.7 °C
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; experimental; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	NR
Standard Deviation Results	NR
Results Details	Also reported as 1.94°F

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Citing: Carswell, TS. (1928) Physical properties of o-dichlorobenzene. Ind Eng Chem, 20: 728. no HERO ID. NICNAS, (2001). Ortho-dichlorobenzene, Priority Existing Chemical Assessment Report No. 14. 5155563

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Melting Point
HERO ID:	5926267

EXTRACTION	
Parameter	Data
Melting Point	-18 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Biosynth

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Melting Point	-18.5 °C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Results Details Methods	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: LabNetwork

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Melting Point	-18 - -17 °C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Results Details Methods	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: SynQuest

Study Citation:	Rumble, J. R. (2018). 1,2-dichlorobenzene. :3-16.
OECD Harmonized Template:	Melting Point
HERO ID:	5348704

EXTRACTION	
Parameter	Data
Melting Point	-17.0 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	U.S. EPA, (1980). Ambient water quality criteria for dichlorobenzenes.
OECD Harmonized Template:	Melting Point
HERO ID:	1267074

EXTRACTION

Parameter	Data
Melting Point	-17.6 °C
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: From: Weast, R.C., et al 1975. Handbook of Chemistry and Physics. 56th ed. CRC Press, Cleveland, Ohio. [Old edition of desk reference, unclear if this was previously extracted]

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Melting Point
HERO ID:	5926141

EXTRACTION	
Parameter	Data
Melting Point	-18 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Alfa Aesar

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Melting Point
HERO ID:	5926141

EXTRACTION	
Parameter	Data
Melting Point	-16.7 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that provides references to the original, peer-reviewed source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: PhysProp

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Melting Point
HERO ID:	5926141

EXTRACTION

Parameter	Data
Melting Point	-17.2 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that references a peer-reviewed source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: NIOSH

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Melting Point
HERO ID:	5926141

EXTRACTION	
Parameter	Data
Melting Point	-18 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5: Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Jean-Claude Bradley Open Melting Point Dataset

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926141			
EXTRACTION				
Parameter	Data			
Melting Point	-17 °C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Results Details Methods	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Jean-Claude Bradley Open Melting Point Dataset

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Melting Point
HERO ID:	5926141

EXTRACTION	
Parameter	Data
Melting Point	-16.7 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5: Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Jean-Claude Bradley Open Melting Point Dataset

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926141			
EXTRACTION				
Parameter	Data			
Melting Point	-17.5 °C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Results Details Methods	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: SynQuest

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Melting Point
HERO ID:	5926141

EXTRACTION	
Parameter	Data
Melting Point	-18 °C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Results Details Methods	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

		EVALUATION		
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Alfa Aesar

Study Citation:	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.
OECD Harmonized Template:	Boiling Point
HERO ID:	3981013

EXTRACTION	
Parameter	Data
Boiling Point	180 - C
CASRN and Test Material	95-50-1; Dichlorobenzene, o-
Confidentiality, Type, and Guideline	none; not specified; not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Standard Deviation Results	not reported
Results Details	@ 760 mm Hg

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Boiling Point
HERO ID:	5926426

EXTRACTION

Parameter	Data
Boiling Point	179.2 - 181 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Standard Deviation Results	Not Reported
Results Details	@ 760 torr; 41 values were reported in Reaxys; 4 of these values were reported in the range of 179.2 to 181 C at 760 torr; 37 values were outside this range or measured at unreported or non-standard pressures.

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	IARC, (1999). Some chemicals that cause tumours of the kidney or urinary bladder in rodents and some other substances.
OECD Harmonized Template:	Boiling Point
HERO ID:	666726

EXTRACTION

Parameter	Data
Boiling Point	180 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	none; not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Standard Deviation Results	NR
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Citing Lide, D.R., ed. (1997) CRC Handbook of Chemistry and Physics, 78th Ed., Boca Raton, FL, CRC Press, p. 3-39

Study Citation:	Krishnamurti, R. (2001). Chlorinated benzenes.
OECD Harmonized Template:	Boiling Point
HERO ID:	5177139

EXTRACTION

Parameter	Data
Boiling Point	180.4 - C
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	None; not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Standard Deviation Results	NR
Results Details	101.3 kPa

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Marshall, K. A., Pottenger, L. H. (2016). Chlorocarbons and chlorohydrocarbons. :1-29.
OECD Harmonized Template:	Boiling Point
HERO ID:	3828879

EXTRACTION	
Parameter	Data
Boiling Point	180 - C
CASRN and Test Material	95-50-1; Not Reported
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Standard Deviation Results	Not Reported
Results Details	Kirk-Othmer Encyclopedia of Chemical Technology. Copyright # 2016 John Wiley & Sons, Inc. All rights reserved.DOI: 10.1002/0471238961.1921182218050504.a01.pub3

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to information from this secondary source.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to information from this secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Kirk-Othmer Encyclopedia of Chemical Technology. Copyright # 2016 John Wiley & Sons, Inc. All rights reserved.DOI: 10.1002/0471238961.1921182218050504.a01.pub3

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized Template:	Boiling Point
HERO ID:	9641569

EXTRACTION

Parameter	Data
Boiling Point	Not Reported
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	Not Reported; Not Reported; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Standard Deviation Results	Not Reported
Results Details	critical temperature: 417.2 C

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Cited from Kirk-Othmer Encyclopedia of Chemical Technology. 4th ed. Volumes 1: New York, NY. John Wiley and Sons, 1991-Present., p. V6: 89 (1993) (HERO ID: 5348450)

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.
OECD Harmonized Template:	Boiling Point
HERO ID:	192177

EXTRACTION

Parameter	Data
Boiling Point	357 - F
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; None
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Standard Deviation Results	NR
Results Details	at 1 atmosphere

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225162

EXTRACTION

Parameter	Data
Boiling Point	453.4 - K
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Standard Deviation Results	0.5 K
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Cited from Kailuru, R.; Abburi, K., Isobaric Vapor-Liquid Equilibria of Methyl Ethyl Ketone(1) + o-Dichlorobenzene(2), + Bromobenzene(2), and + Nitrobenzene(2), J. Chem. Eng. Data, 1988, 33, 251.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225162

Parameter		EXTRACTION		
Boiling Point		453.0 - K		
CASRN and Test Material		95-50-1; 1,2-dichlorobenzene		
Confidentiality, Type, and Guideline		No; not specified; Not Reported		
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reported; Not Reported		
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported; Not Reported		
Standard Deviation Results		1.5 K		
Results Details		Not Reported		
Domain		EVALUATION		
Domain		Metric	Rating	Comments
Domain 1: Substance		Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
		Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability		Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
		Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other		Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
		Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Cited from Walling, C.; Miller, B., The Relative Reactivities of Substituted Toluenes toward Chlorine Atoms, J. Am. Chem. Soc., 1957, 79, 4181.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225162

EXTRACTION				
Parameter		Data		
Boiling Point		453.63 - K		
CASRN and Test Material		95-50-1; 1,2-dichlorobenzene		
Confidentiality, Type, and Guideline		No; not specified; Not Reported		
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reported; Not Reported		
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported; Not Reported		
Standard Deviation Results		0.07 K		
Results Details		Not Reported		
EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability				
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Cited from Dreisbach, R.R.; Martin, R.A., Physical Data on Some Organic Compounds, Ind. Eng. Chem., 1949, 41, 2875-8.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225162

EXTRACTION				
Parameter		Data		
Boiling Point		451.2 - K		
CASRN and Test Material		95-50-1; 1,2-dichlorobenzene		
Confidentiality, Type, and Guideline		No; not specified; Not Reported		
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reported; Not Reported		
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported; Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Recorded as reduced pressure boiling point.Pressure (bar)=1.02		
EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability				
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Cited from Aldrich Chemical Company Inc., Catalog Handbook of Fine Chemicals, Aldrich Chemical Company, Inc., Milwaukee WI, 1990, 1.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225162

EXTRACTION				
Parameter		Data		
Boiling Point		453.7 - K		
CASRN and Test Material		95-50-1; 1,2-dichlorobenzene		
Confidentiality, Type, and Guideline		No; not specified; Not Reported		
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reported; Not Reported		
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported; Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability				
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Cited from CRC Handbook of Data on Organic Compounds, 2nd Edition, Weast,R.C and Grasselli, J.G., ed(s)., CRC Press, Inc., Boca Raton, FL, 1989, 1.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Boiling Point	453.65 - K
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Standard Deviation Results	0.35 K
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination **High**

* Related References: Cited from Lecat, M., Azeotropes of Ethyl Urethane and other Azeotropes, C. R. Hebd. Seances Acad. Sci., 1943, 217, 273.

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Boiling Point
HERO ID:	5926121

EXTRACTION

Parameter	Data
Boiling Point	180.1 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a recognized data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: O'Neil, M.J. (Ed.). 2006. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry. P. 518.

Study Citation:	NTP, (1985). Toxicology and Carcinogenesis Studies of 1,2-Dichlorobenzene (o-Dichlorobenzene) (CAS No. 95-50-1) in F344/N Rats and B6C3F1 Mice (Gavage Studies). 255:1-195.
OECD Harmonized Template:	Boiling Point
HERO ID:	1944492

EXTRACTION

Parameter	Data
Boiling Point	178.5 C
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	No; experimental; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: water analysis = 0.016 +/-0.001%
Standard Deviation Results	0.3 deg C
Results Details	Visual, microboiling point; Merck Index (1976) literature value also reported = 180.5 (deg C assumed)

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template:	Boiling Point
HERO ID:	5926377

EXTRACTION

Parameter	Data
Boiling Point	180.5 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a peer-reviewed data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Boiling Point
HERO ID:	5185293

EXTRACTION	
Parameter	Data
Boiling Point	180.3 C
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; experimental; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Standard Deviation Results	NR
Results Details	Also reported as 356°F

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Citing: Carswell, TS. (1928) Physical properties of o-dichlorobenzene. Ind Eng Chem, 20: 728. no HERO ID. and NICNAS, (2001). Ortho-dichlorobenzene, Priority Existing Chemical Assessment Report No. 14. 5155563

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Boiling Point
HERO ID:	5926267

EXTRACTION	
Parameter	Data
Boiling Point	178 - 180 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: SynQuest

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Boiling Point	178 - 180 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Oakwood

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Boiling Point	180.5 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Biosynth

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Boiling Point	180.5 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: LabNetwork

Study Citation:	Rumble, J. R. (2018). 1,2-dichlorobenzene. :3-16.
OECD Harmonized Template:	Boiling Point
HERO ID:	5348704

EXTRACTION

Parameter	Data
Boiling Point	180.2 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a peer-reviewed data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Rumble, J. R. (2018). Flammability of chemical substances. :16-16 - 16-32.
OECD Harmonized Template:	Boiling Point
HERO ID:	6655446

EXTRACTION

Parameter	Data
Boiling Point	180.2
CASRN and Test Material	Not Reported; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	none; experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Standard Deviation Results	Not reported
Results Details	Not reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a known data-collection, prepared by experts in the field.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	U.S. EPA, (1980). Ambient water quality criteria for dichlorobenzenes.
OECD Harmonized Template:	Boiling Point
HERO ID:	1267074

EXTRACTION

Parameter	Data
Boiling Point	179 C
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: From: Weast, R.C., et al 1975. Handbook of Chemistry and Physics. 56th ed. CRC Press, Cleveland, Ohio. [Old edition of desk reference, unclear if this was previously extracted]

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Boiling Point
HERO ID:	5926141

EXTRACTION

Parameter	Data
Boiling Point	180 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that provides references to the original, peer-reviewed source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: PhysProp

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Boiling Point
HERO ID:	5926141

Parameter	Data	EXTRACTION
Boiling Point	181 C	
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene	
Confidentiality, Type, and Guideline	None; Experimental; Not Reported	
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR	
Radiolabel, Source, State, and Purity	NR; NR; NR; NR	
Standard Deviation Results	Not Reported	
Results Details	Not Reported	

Domain	Metric	EVALUATION	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	High	Data is from a publicly available database that references a peer-reviewed source.
	Metric 6: Models	N/A	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: NIOSH

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926141			
EXTRACTION				
Parameter	Data			
Boiling Point	180 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Alfa Aesar

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926141			
EXTRACTION				
Parameter	Data			
Boiling Point	180 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Alfa Aesar

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926141			
EXTRACTION				
Parameter	Data			
Boiling Point	179 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: SynQuest

Study Citation:	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.
OECD Harmonized Template:	Density
HERO ID:	3981013

EXTRACTION	
Parameter	Data
Density	1.3059 -
CASRN and Test Material	95-50-1; Dichlorobenzene, o-
Confidentiality, Type, and Guideline	none; not specified; not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Density Type	specific gravity (density of a substance divided by the density of water)
System	not specified
Temperature	20°C
Standard Deviation Results	not reported
Results Details	not reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Density
HERO ID:	5926426

EXTRACTION

Parameter	Data
Density	1.2934 - 1.3425 g/cm3
CASRN and Test Material	95-50-1; Not Reported
Confidentiality, Type, and Guideline	Not Reported; Not Reported; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Density Type	density
System	Not Reported
Temperature	20-25°C
Standard Deviation Results	Not Reported
Results Details	There were 56 values reported in Reaxys; range reported here includes values reported at 20-25°C.

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	IARC, (1999). Some chemicals that cause tumours of the kidney or urinary bladder in rodents and some other substances.
OECD Harmonized Template:	Density
HERO ID:	666726

EXTRACTION

Parameter	Data
Density	5.07
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	none; not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Density Type	relative vapor density
System	NR
Temperature	Not Reported
Standard Deviation Results	NR
Results Details	Air=1

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Citing HERO ID 5185266

Study Citation:	IARC, (1999). Some chemicals that cause tumours of the kidney or urinary bladder in rodents and some other substances.		
OECD Harmonized Template:	Density		
HERO ID:	666726		
EXTRACTION			
Parameter	Data		
Density	1.3059 g/cm3		
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene		
Confidentiality, Type, and Guideline	none; not specified; NR		
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, and Purity	NR; NR; liquid; NR Notes: NR		
Density Type	density		
System	NR		
Temperature	20°C		
Standard Deviation Results	NR		
Results Details	Not Reported		
EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High	

* Related References: Citing Lide, D.R., ed. (1997) CRC Handbook of Chemistry and Physics, 78th Ed., Boca Raton, FL, CRC Press, p. 3-39.

Study Citation:	Marshall, K. A., Pottenger, L. H. (2016). Chlorocarbons and chlorohydrocarbons. :1-29.
OECD Harmonized Template:	Density
HERO ID:	3828879

EXTRACTION	
Parameter	Data
Density	1306 - kg/m3
CASRN and Test Material	95-50-1; Not Reported
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Density Type	density
System	Not Reported
Temperature	25C
Standard Deviation Results	Not Reported
Results Details	Kirk-Othmer Encyclopedia of Chemical Technology. Copyright # 2016 John Wiley & Sons, Inc. All rights reserved.DOI: 10.1002/0471238961.1921182218050504.a01.pub3

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to information from this secondary source.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to information from this secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information

Overall Quality Determination **High**

* Related References: Kirk-Othmer Encyclopedia of Chemical Technology. Copyright # 2016 John Wiley & Sons, Inc. All rights reserved.DOI: 10.1002/0471238961.1921182218050504.a01.pub3

Study Citation:	(1994). Locating and Estimating Air Emissions from Sources of Chlorobenzenes (Revised March 1994).			
OECD Harmonized Template:	Density			
HERO ID:	1998192			
EXTRACTION				
Parameter	Data			
Density	1.305 g/mL			
CASRN and Test Material	95-50-1; o-Dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; NR			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Density Type	density			
System	NR			
Temperature	at 20°C/4°C			
Standard Deviation Results	NR			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of specific references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: The values are from one of five references:1. U.S. Environmental Protection Agency, Investigation of Selected Potential Environmental Contaminants: Halogenated Benzenes, EPA-560/2-77-004, Office of Toxic Substances, Washington DC, July 1977, pp. 6-43. No HERO ID.4. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volume I, Lewis Publishers, Inc., Chelsea, Michigan, 1990. HERO ID 82189.5. Reid, R.C., Prausnitz, J.M., and T.K. Sherwood, The Properties of Gases and Liquids, Third Edition, McGraw-Hill Book Company, New York, NY, 1977, p. 184. No HERO ID.6. Windholz, M. (ed.), The Merck Index, Tenth Edition, Merck and Company, Rahway, NJ, 1984. pp. 298, 444, 677, 1377. No HERO ID.7. Weast, R.C. (ed.), CRC Handbook of Chemistry and Physics, 59th Edition, CRC Press Inc., West Palm Beach, FL, 1978, pp. C-153, 157, 171. HERO ID 18783.8. Kirk-Othmer Encyclopedia of Chemical Technology, Volume 5, Third Edition, Wiley-Interscience Publication, New York, NY, 1980, pp. 797-808. No HERO ID.

Study Citation:	(1994). Locating and Estimating Air Emissions from Sources of Chlorobenzenes (Revised March 1994).			
OECD Harmonized Template:	Density			
HERO ID:	1998192			
EXTRACTION				
Parameter	Data			
Density	5.05			
CASRN and Test Material	95-50-1; o-Dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; NR			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Density Type	vapor density			
System	Not Reported			
Temperature	NR			
Standard Deviation Results	NR			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.	
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.	
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.	
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.	
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of specific references to original sources.	
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.	
Overall Quality Determination		Medium		

* Related References: The values are from one of five references: 1. U.S. Environmental Protection Agency, Investigation of Selected Potential Environmental Contaminants: Halogenated Benzenes, EPA-560/2-77-004, Office of Toxic Substances, Washington DC, July 1977, pp. 6-43. No HERO ID. 4. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volume I, Lewis Publishers, Inc., Chelsea, Michigan, 1990. HERO ID 82189. 5. Reid, R.C., Prausnitz, J.M., and T.K. Sherwood, The Properties of Gases and Liquids, Third Edition, McGraw-Hill Book Company, New York, NY, 1977, p. 184. No HERO ID. 6. Windholz, M. (ed.), The Merck Index, Tenth Edition, Merck and Company, Rahway, NJ, 1984. pp. 298, 444, 677, 1377. No HERO ID. 7. Weast, R.C. (ed.), CRC Handbook of Chemistry and Physics, 59th Edition, CRC Press Inc., West Palm Beach, FL, 1978, pp. C-153, 157, 171. HERO ID 18783. 8. Kirk-Othmer Encyclopedia of Chemical Technology, Volume 5, Third Edition, Wiley-Interscience Publication, New York, NY, 1980, pp. 797-808. No HERO ID.

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized Template:	Density
HERO ID:	9641569

EXTRACTION	
Parameter	Data
Density	Not Reported
CASRN and Test Material	95-50-1; Not Reported
Confidentiality, Type, and Guideline	Not Reported; Not Reported; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Density Type	Not Reported
System	Not Reported
Temperature	Not Reported
Standard Deviation Results	Not Reported
Results Details	Saturated vapor density=0.00065 lb/cu ft @ 70F

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Cited from U.S. Coast Guard, Department of Transportation. CHRIS - Hazardous Chemical Data. Volume II. Washington, D.C.: U.S. Government Printing Office, 1984-5.

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.			
OECD Harmonized Template:	Density			
HERO ID:	192177			
EXTRACTION				
Parameter	Data			
Density	1.30 - Not reported			
CASRN and Test Material	95-50-1; o-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; NR			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR			
Density Type	Specific gravity			
System	Not reported			
Temperature	Not Reported			
Standard Deviation Results	NR			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information
Overall Quality Determination		Medium		

Study Citation:	NTP, (1985). Toxicology and Carcinogenesis Studies of 1,2-Dichlorobenzene (o-Dichlorobenzene) (CAS No. 95-50-1) in F344/N Rats and B6C3F1 Mice (Gavage Studies). 255:1-195.
OECD Harmonized Template:	Density
HERO ID:	1944492

EXTRACTION	
Parameter	Data
Density	1.2994 g/mL
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	No; Experimental; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Density Type	relative density
System	NR
Temperature	24 deg C (for test substance and water)
Standard Deviation Results	0.001 g/mL
Results Details	Literature Values also reported = 1.3059 g/mL at 20 deg C and water at 4 deg C and 1.3003 g/mL at 25 deg C and water at 4 deg C (Merck Index, 1976)

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Density			
HERO ID:	5185293			
EXTRACTION				
Parameter	Data			
Density	1.3007 kg/L			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	No; Experimental; NR			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Density Type	density			
System	NR			
Temperature	25°C			
Standard Deviation Results	NR			
Results Details	NR			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Citing Curry, HL. and Gilkerson, WR. (1957) The temperature dependence of ion pair dissociation constants. I. o-Dichlorobenzene. J Am Chem Soc, 70:4021-4023. no HERO ID.andNICNAS, (2001). Ortho-dichlorobenzene, Priority Existing Chemical Assessment Report No. 14. HERO ID 5155563.

Study Citation:	RIVM, (1991). Integrated criteria document chlorobenzenes. :281.
OECD Harmonized Template:	Density
HERO ID:	5159927

EXTRACTION	
Parameter	Data
Density	5.1
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; NR; NR
Density Type	density
System	NR
Temperature	NR
Standard Deviation Results	NR
Results Details	Air = 1

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Citing Mackay and Shiu, 1981 J. Phys. Chem. Ref, Data, 10 (4), 1175-1199, No HERO ID. Verschueren (1983) HERO ID 5923756 and Kamlet, et al. (1988) HERO ID 2169142.

Study Citation:	U.S. EPA, (1980). Ambient water quality criteria for dichlorobenzenes.
OECD Harmonized Template:	Density
HERO ID:	1267074

EXTRACTION	
Parameter	Data
Density	1.30 g/ml
CASRN and Test Material	95-50-1; Not Reported
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Density Type	density
System	Not Reported
Temperature	20C
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: From: Weast, R.C., et al 1975. Handbook of Chemistry and Physics. 56th ed. CRC Press, Cleveland, Ohio. [Old edition of desk reference, unclear if this was previously extracted]

Study Citation:	Baragi, J. G., Aralaguppi, M. I., Aminabhavi, T. M., Kariduraganavar, M. Y., Kulkarni, S. S. (2005). Density, viscosity, refractive index, and speed of sound for binary mixtures of 1,4-dioxane with different organic liquids at (298.15, 303.15, and 308.15) K. Journal of Chemical and Engineering Data 50(3):917-923.
OECD Harmonized Template:	Density
HERO ID:	3572152

EXTRACTION	
Parameter	Data
Density	1.3009 g/cm ³
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	No; SD Fine Chemicals (Mumbai, India); Liquid; >99 mol% Notes: purity determined by GC/FID
Temperature	298.15 K
Standard Deviation Results	uncertainty ± 0.0005
Results Details	298.15 K; Capillary pycnometer

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Density
HERO ID:	5926426

EXTRACTION

Parameter	Data
Density	1.2934 - 1.3088 g/cm3
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	20-25°C
Standard Deviation Results	Not Reported
Results Details	20-25°C; 56 values were reported in Reaxys; 18 values were reported in the range of 1.2934 to 1.3088 at 20-25°C; 38 values were outside this range or measured at non-standard temperatures.

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	Goralski, P., Piekarski, H. (2007). Heat capacities and densities of some liquid chloro-, bromo-, and bromochloro-substituted benzenes. Journal of Chemical and Engineering Data 52(2):655-659.
OECD Harmonized Template:	Density
HERO ID:	4913763

EXTRACTION	
Parameter	Data
Density	1.30061 g/cm ³
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; chemicals were dried with activated molecular sieves (type 4Å from Lancaster) and degassed in an ultrasonic stream.; NR
Radiolabel, Source, State, and Purity	NR; Aldrich; Liquid; 99% Notes: final purity used for experiments was determined by the method of thermal analysis using s DSC 111 (Setaram) calorimeter to be ≥ 99 mol %.
Temperature	298.15 K
Standard Deviation Results	5E-6 g/cm ³
Results Details	performed using an Anton Paar density analyzer DMA 5000

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Density
HERO ID:	5926121

EXTRACTION	
Parameter	Data
Density	1.3059 g/cm ³
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	20°C
Standard Deviation Results	Not Reported
Results Details	Reported as 1.3059 g/mL

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: O'Neil, M.J. (Ed.). 2006. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry. P. 518.

Study Citation:	O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template:	Density
HERO ID:	5926377

EXTRACTION

Parameter	Data
Density	1.3059 g/cm3
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	20°C
Standard Deviation Results	Not Reported
Results Details	at 20°C relative to water at 4°C

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	O’Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.			
OECD Harmonized Template:	Density			
HERO ID:	5926377			
EXTRACTION				
Parameter	Data			
Density	1.3003 g/cm3			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	25°C			
Standard Deviation Results	Not Reported			
Results Details	at 25°C relative to water at 4°C			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Density
HERO ID:	5926267

EXTRACTION	
Parameter	Data
Density	1.306 g/cm3
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Alfa Aesar

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Density			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Density	1.306 g/cm3			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: SynQuest

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Density			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Density	1.306 g/cm3			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination			Medium	

* Related References: Oakwood

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Density			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Density	1.3 g/cm3			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Fluorochem

Study Citation:	Rumble, J. R. (2018). 1,2-dichlorobenzene. :3-16.
OECD Harmonized Template:	Density
HERO ID:	5348704

EXTRACTION	
Parameter	Data
Density	1.3059 g/cm3
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	20°C
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination
High

Study Citation:	Venkatramana, L., Sivakumar, K., Govinda, V., Reddy, K. D. (2013). Study on solution properties of some industrially important solvents with an aromatic alcohol. Journal of Molecular Liquids 186:163-170.
OECD Harmonized Template:	Density
HERO ID:	5249810

EXTRACTION	
Parameter	Data
Density	1.30034 g/cm3
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; S.D. Fine Chemicals Ltd, India; Liquid; 99.5%
Temperature	298.15 K
Standard Deviation Results	2E-5 g/cm3
Results Details	measurements were performed with a Rudolph Research Analytical digital densimeter (DDH-2911 Model)

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.
OECD Harmonized Template:	Density
HERO ID:	6629632

EXTRACTION

Parameter	Data
Density	5.05
CASRN and Test Material	95-50-1; 1,2-DCB
Confidentiality, Type, and Guideline	None; Experimental; Not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not reported
Temperature	Not Reported
Standard Deviation Results	Not reported
Results Details	Relative to air

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.			
OECD Harmonized Template:	Density			
HERO ID:	6629632			
EXTRACTION				
Parameter		Data		
Density		5.1		
CASRN and Test Material		95-50-1; 1,2-DCB		
Confidentiality, Type, and Guideline		None; Experimental; Not specified		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; NR; NR		
System		Not reported		
Temperature		Not Reported		
Standard Deviation Results		Not reported		
Results Details		Relative vapor density (air = 1)		
EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability				
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	tion, and the methodology’s objective is clear. Analytical method is unknown but is likely to be appropriate based on the data’s inclu-
Domain 3: Other				sion in a peer- reviewed/recognized database or other secondary source.
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High
	Metric 6:	Models	N/A	designation such as peer-review, public availability, or the inclusion of references to
				original sources.
				Rating of this factor is not applicable to this kind of information.
Overall Quality Determination			High	

* Related References: ILO International Chemical Safety Cards (ICSC)

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.
OECD Harmonized Template:	Density
HERO ID:	6629632

EXTRACTION	
Parameter	Data
Density	5.05
CASRN and Test Material	95-50-1; 1,2-DCB
Confidentiality, Type, and Guideline	None; Experimental; Not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not reported
Temperature	Not Reported
Standard Deviation Results	Not reported
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: Occupational Safety and Health Administration (OSHA)

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Density
HERO ID:	5926121

EXTRACTION

Parameter	Data
Density	5.05
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not reported
Temperature	Not Reported
Standard Deviation Results	Not Reported
Results Details	air = 1

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available, peer-reviewed database that provides references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Lewis, R.J. Sax's Dangerous Properties of Industrial of Materials. 10th Edition. Volumes 1-3 New York, NY: John Wiley & Sons Inc., 1999. V2: 1182.

Study Citation:	Agroscience,, E.E., LLC, (2021). Determination of the vapor pressure by static method (amended final report).
OECD Harmonized Template:	Vapor Pressure
HERO ID:	10064190

EXTRACTION

Parameter	Data
Vapor Pressure	327 - 469 Pa
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; experimental; Determination of the Vapor Pressure by Static Method based on OPPTS 830.7950, Vapor Pressure and OECD Guideline for Testing of Chemicals, 104, Vapour Pressure
Solvent, Reactivity, Storage, and Stability	NR; NR; Ambient in darkness; NR
Radiolabel, Source, State, and Purity	NR; Sigma-Aldrich; Colorless liquid; 99.7% by GC Notes: Lot/Batch SHBL0495
Temperature	36.88 to 37.38 deg C
System	The test system contained a vacuum system, Pirani diaphragm capacitance manometer, turbomolecular pump and sample chamber
Standard Deviation Results	73 Pa
Results Details	Mean Measured Vapor Pressure = 388 Pa

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors at a slightly elevated temperature.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4: Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5: Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	3981013

EXTRACTION	
Parameter	Data
Vapor Pressure	0.75 - mm Hg
CASRN and Test Material	95-50-1; Dichlorobenzene, o-
Confidentiality, Type, and Guideline	none; not specified; not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Temperature	16.3°C
System	not reported
Standard Deviation Results	not reported
Results Details	not reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review; specific source not reported.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination **High**

* Related References: primary reference not specified but include CRC (2009), HSDB (no date), Merck (2006), SAX (2012)

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5926426

EXTRACTION

Parameter	Data
Vapor Pressure	>= 0.0932 - <= 786.76 torr
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	none; not specified; not specified
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	-14.2 to 181.633°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Values reported: 42.9709 - 786.76 torr at 90.193 to 181.633°C; 0.05798 -3.36027 torr at -14.2 to 40°C; 189.27 - 782.56 torr at 130.8 to 181.6°C; 0.0932 torr at -10°C; 0.25 - 1.35 torr at 0 to 24°C; 3 torr at 30°C.

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Data range determined from multiple primary sources in REAXYS

Study Citation:	IARC, (1999). Some chemicals that cause tumours of the kidney or urinary bladder in rodents and some other substances.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	666726

EXTRACTION

Parameter	Data
Vapor Pressure	200 Pa
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Temperature	25°C
System	NR
Standard Deviation Results	NR
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Citing HERO ID 5185266

Study Citation:	Krishnamurti, R. (2001). Chlorinated benzenes.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5177139

EXTRACTION

Parameter	Data
Vapor Pressure	Not Reported
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	None; Not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	NR
System	NR
Standard Deviation Results	NR
Results Details	heat of vaporization 311.0 J/gb

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Liu, K., Dickhut, R. M. (1994). Saturation vapor pressures and thermodynamic properties of benzene and selected chlorinated benzenes at environmental temperatures. Chemosphere 29(3):581-589.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	4931645

EXTRACTION

Parameter	Data
Vapor Pressure	7.73 Pa
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical Co.; Liquid; 99+% Notes: used as received without additional purification
Temperature	-14.2°C
System	A round bottom glass vessel was used as the generating system. Vapor pressure was calculated using the ideal gas law.
Standard Deviation Results	0.76
Results Details	This source measured vapor pressures at -14.2, -5.0, 10, 25, and 40°C

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	Peer-reviewed journal article with results compared to other literature values.
	Metric 4: Reliability/Analytical Method	High	Standard method used.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Liu, K., Dickhut, R. M. (1994). Saturation vapor pressures and thermodynamic properties of benzene and selected chlorinated benzenes at environmental temperatures. Chemosphere 29(3):581-589.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	4931645

EXTRACTION

Parameter	Data
Vapor Pressure	1.47E+1 Pa
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical Co.; Liquid; 99+% Notes: used as received without additional purification
Temperature	-5°C
System	A round bottom glass vessel was used as the generating system. Vapor pressure was calculated using the ideal gas law.
Standard Deviation Results	0.15E+1
Results Details	This source measured vapor pressures at -14.2, -5.0, 10, 25, and 40°C

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	Peer-reviewed journal article with results compared to other literature values.
	Metric 4: Reliability/Analytical Method	High	Standard method used.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Liu, K., Dickhut, R. M. (1994). Saturation vapor pressures and thermodynamic properties of benzene and selected chlorinated benzenes at environmental temperatures. Chemosphere 29(3):581-589.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	4931645

EXTRACTION

Parameter	Data
Vapor Pressure	5.61E+1 Pa
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical Co.; Liquid; 99+% Notes: used as received without additional purification
Temperature	10°C
System	A round bottom glass vessel was used as the generating system. Vapor pressure was calculated using the ideal gas law.
Standard Deviation Results	0.35E+1
Results Details	This source measured vapor pressures at -14.2, -5.0, 10, 25, and 40°C

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	Peer-reviewed journal article with results compared to other literature values.
	Metric 4: Reliability/Analytical Method	High	Standard method used.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Liu, K., Dickhut, R. M. (1994). Saturation vapor pressures and thermodynamic properties of benzene and selected chlorinated benzenes at environmental temperatures. Chemosphere 29(3):581-589.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	4931645

EXTRACTION

Parameter	Data
Vapor Pressure	1.64E+2 Pa
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical Co.; Liquid; 99+% Notes: used as received without additional purification
Temperature	25°C
System	A round bottom glass vessel was used as the generating system. Vapor pressure was calculated using the ideal gas law.
Standard Deviation Results	0.08E+2
Results Details	This source measured vapor pressures at -14.2, -5.0, 10, 25, and 40°C

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	Peer-reviewed journal article with results compared to other literature values.
	Metric 4: Reliability/Analytical Method	High	Standard method used.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Liu, K., Dickhut, R. M. (1994). Saturation vapor pressures and thermodynamic properties of benzene and selected chlorinated benzenes at environmental temperatures. Chemosphere 29(3):581-589.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	4931645

EXTRACTION

Parameter	Data
Vapor Pressure	4.48E+2 Pa
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical Co.; Liquid; 99+% Notes: used as received without additional purification
Temperature	40°C
System	A round bottom glass vessel was used as the generating system. Vapor pressure was calculated using the ideal gas law.
Standard Deviation Results	0.27E+2
Results Details	This source measured vapor pressures at -14.2, -5.0, 10, 25, and 40°C

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	Peer-reviewed journal article with results compared to other literature values.
	Metric 4: Reliability/Analytical Method	High	Standard method used.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	(1994). Locating and Estimating Air Emissions from Sources of Chlorobenzenes (Revised March 1994).
OECD Harmonized Template:	Vapor Pressure
HERO ID:	1998192

EXTRACTION	
Parameter	Data
Vapor Pressure	1.28 mm Hg
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
System	NR
Standard Deviation Results	NR
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information

Overall Quality Determination

High

* Related References: The values are from one of five references:1. U.S. Environmental Protection Agency, Investigation of Selected Potential Environmental Contaminants: Halogenated Benzenes, EPA-560/2-77-004, Office of Toxic Substances, Washington DC, July 1977, pp. 6-43. No HERO ID.4. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, Volume I, Lewis Publishers, Inc., Chelsea, Michigan, 1990. HERO ID 82189.5. Reid, R.C., Prausnitz, J.M., and T.K. Sherwood, The Properties of Gases and Liquids, Third Edition, McGraw-Hill Book Company, New York, NY, 1977, p. 184. No HERO ID.6. Windholz, M. (ed.), The Merck Index, Tenth Edition, Merck and Company, Rahway, NJ, 1984. pp. 298, 444, 677, 1377. No HERO ID.7. Weast, R.C. (ed.), CRC Handbook of Chemistry and Physics, 59th Edition, CRC Press Inc., West Palm Beach, FL, 1978, pp. C-153, 157, 171. HERO ID 18783.8. Kirk-Othmer Encyclopedia of Chemical Technology, Volume 5, Third Edition, Wiley-Interscience Publication, New York, NY, 1980, pp. 797-808. No HERO ID.

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	9641569

EXTRACTION

Parameter	Data
Vapor Pressure	Not Reported
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	critical pressure: 4031 kPa

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from Kirk-Othmer Encyclopedia of Chemical Technology. 4th ed. Volumes 1: New York, NY. John Wiley and Sons, 1991-Present., p. V6: 89 (1993) (HERO ID: 5348450)

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	9641569			
EXTRACTION				
Parameter	Data			
Vapor Pressure	Not Reported			
CASRN and Test Material	95-50-1; Not Reported			
Confidentiality, Type, and Guideline	Not Reported; Not Reported; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	heat of fusion: 86.11 J/g			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: cited from Kirk-Othmer Encyclopedia of Chemical Technology. 4th ed. Volumes 1: New York, NY. John Wiley and Sons, 1991-Present., p. V6: 89 (1993) (HERO ID: 5348450)

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	9641569			
EXTRACTION				
Parameter	Data			
Vapor Pressure	Not Reported			
CASRN and Test Material	95-50-1; Not Reported			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	heat of vaporization: 311 J/g			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: cited from Kirk-Othmer Encyclopedia of Chemical Technology. 4th ed. Volumes 1: New York, NY. John Wiley and Sons, 1991-Present., p. V6: 89 (1993) (HERO ID: 5348450)

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	192177

EXTRACTION

Parameter	Data
Vapor Pressure	1 - mm Hg
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Temperature	NR
System	NR
Standard Deviation Results	NR
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	10225162

EXTRACTION

Parameter	Data
Vapor Pressure	Not Reported
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Enthalpy of Vaporization: 44.0 kJ/mol at 388 KBased on data from 373-463 KMethod: Calculated from the vapor pressure data reported by the method of least squares

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: cited from Stephenson, Richard M.; Malanowski, Stanislaw, Handbook of the Thermodynamics of Organic Compounds, 1987, <https://doi.org/10.1007/978-94-009-3173-2>.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Vapor Pressure	Not Reported
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Enthalpy of Vaporization: 50.8 kJ/mol at 271 K based on data from 256-287 K

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from Polednicek, M.; Guetachew, T.; Jose, J.; Ruzicka, V.; Rohac, V.; Zabransky, M., Vapor pressures and sublimation pressures of dichlorobenzenes (1,2-,1,3-, and 1,4-), trichlorobenzenes (1,2,3- and 1,3,5-), and pentachlorobenzene, ELDATA: Int. Electron. J. Phys. Chem. Data, 1996, 2, 2, 41.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.		
OECD Harmonized Template:	Vapor Pressure		
HERO ID:	10225162		
EXTRACTION			
Parameter	Data		
Vapor Pressure	Not Reported		
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene		
Confidentiality, Type, and Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported		
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported		
Temperature	Not Reported		
System	Not Reported		
Standard Deviation Results	Not Reported		
Results Details	Enthalpy of Vaporization: 44.5 kJ/mol at 376 KBased on data from 363-454 KMethod: Ebulliometer		
EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High	

* Related References: cited from Rohác, Vladislav; Ruzicka, Vlastimil; Ruzicka, Kvetoslav; Polednicek, Milos; Aim, Karel; Jose, Jacques; Zábanský, Milan, Recommended vapour and sublimation pressures and related thermal data for chlorobenzenes, Fluid Phase Equilibria, 1999, 157, 1, 121-142, [https://doi.org/10.1016/S0378-3812\(99\)00003-5](https://doi.org/10.1016/S0378-3812(99)00003-5).

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Vapor Pressure	Not Reported			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Enthalpy of Vaporization: 50 kJ/mol at 322 Kbased on data from 301-343 KMethod: Gas saturation, transpiration			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: cited from Grayson, B. Terence; Fosbraey, Lynda A., Determination of the vapour pressure of pesticides, Pestic. Sci., 2006, 13, 3, 269-278, <https://doi.org/10.1002/ps.2780130308>.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Vapor Pressure	Not Reported			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Enthalpy of Vaporization: 50.9 kJ/molbased on data from 413-453 Kmethod: gas chromatography			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: cited from Spieksma, Walter; Luijk, Ronald; Govers, Harrie A.J., Determination of the liquid vapour pressure of low-volatility compounds from the Kováts retention index, Journal of Chromatography A, 1994, 672, 1-2, 141-148, [https://doi.org/10.1016/0021-9673\(94\)80602-0](https://doi.org/10.1016/0021-9673(94)80602-0) . [all data]

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Vapor Pressure	Not Reported			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Enthalpy of Vaporization: 48.5 +/- 0.1 kJ/molmethod: Calorimetry			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: cited from An, Xuwu; Zheng, Xiaolin, Determination of Standard Enthalpies of Vaporization and Sublimation of Three Dichlorobenzenes, Acta Phys. Chim. Sin., 1989, 5, 4, 487-491, <https://doi.org/10.3866/PKU.WHXB19890421> .

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Vapor Pressure	Not Reported
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Enthalpy of Vaporization: 49.9 kJ/molbased on data from 360-450 K

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from Boublik, T.; Fried, V.; Hala, E., The Vapour Pressures of Pure Substances: Selected Values of the Temperature Dependence of the Vapour Pressures of Some Pure Substances in the Normal and Low Pressure Region, 2nd ed., Elsevier, New York, 1984, 972. [all data]

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Vapor Pressure	Not Reported			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Antoine Equation Parameters [log10(P) = A - (B / (T + C))]: P=pressure in bar, T= temperature in K, Temperature: 293.14-453.57 K, A=4.19518, B=1649.55, -59.836			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: cited from McDonald, R.A.; Shrader, S.A.; Stull, D.R., Vapor Pressures and Freezing Points of Thirty Pure Organic Compounds., J. Chem. Eng. Data, 1959, 4, 4, 311-313, <https://doi.org/10.1021/je60004a009>.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Vapor Pressure	Not Reported			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Enthalpy of Vaporization: 51.2 kJ/mol at 258-313 Kmethod: Gas Chromatography			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: cited from Liu, Kewen; Dickhut, Rebecca M., Saturation vapor pressures and thermodynamic properties of benzene and selected chlorinated benzenes at environmental temperatures, Chemosphere, 1994, 29, 3, 581-589, [https://doi.org/10.1016/0045-6535\(94\)90445-6](https://doi.org/10.1016/0045-6535(94)90445-6) .

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Vapor Pressure	Not Reported
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Enthalpy of Vaporization: 51.2 kJ/mol at 256 K

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from Rohác, Vladislav; Ruzicka, Vlastimil; Ruzicka, Kvetoslav; Polednicek, Milos; Aim, Karel; Jose, Jacques; Zábanský, Milan, Recommended vapour and sublimation pressures and related thermal data for chlorobenzenes, Fluid Phase Equilibria, 1999, 157, 1, 121-142, [https://doi.org/10.1016/S0378-3812\(99\)00003-5](https://doi.org/10.1016/S0378-3812(99)00003-5).

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5926121

EXTRACTION	
Parameter	Data
Vapor Pressure	1.36 mm Hg
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available, peer-reviewed database that provides references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Daubert, T.E., R.P. Danner. Physical and Thermodynamic Properties of Pure Chemicals Data Compilation. Washington, D.C.: Taylor and Francis, 1989.

Study Citation:	O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5926377

EXTRACTION

Parameter	Data
Vapor Pressure	1.56 mm Hg
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a peer-reviewed data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: O'Neil, M.J. (Ed.). 2013. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry. p. 553.

Study Citation:	RIVM, (1991). Integrated criteria document chlorobenzenes. :281.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5159927

EXTRACTION	
Parameter	Data
Vapor Pressure	196 Pa
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; Not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25
System	NR
Standard Deviation Results	NR
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Citing Mackay and Shiu, 1981 J. Phys. Chem. Ref, Data, 10 (4), 1175-1199, No HERO ID. Verschueren (1983) HERO ID 5923756 and Kamlet, et al. (1988) HERO ID 2169142.

Study Citation:	Rohac, V., Ruzicka, V., Ruzicka, K., Aim, K. (1998). Measurements of saturated vapor pressure above the liquid phase for isomeric dichlorobenzenes and 1,2,4-trichlorobenzene. Journal of Chemical and Engineering Data 43(5):770-775.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	4912700

EXTRACTION

Parameter	Data
Vapor Pressure	5729 Pa
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	No; Fluka; Liquid; 99.98%
Temperature	90.2°C
System	modified ebulliometer
Standard Deviation Results	Not Reported
Results Details	outside of environmental range

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	Medium	Experimental measurement is outside environmental range.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Rohac, V., Ruzicka, V., Ruzicka, K., Polednicek, M., Aim, K., Jose, J., Zabransky, M. (1999). Recommended vapour and sublimation pressures and related thermal data for chlorobenzenes. Fluid Phase Equilibria 157(1):121-142.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	4912593

EXTRACTION	
Parameter	Data
Vapor Pressure	187.4 Pa
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	No; NR; Liquid; 99.98%
Temperature	25°C
System	comparative ebulliometry and static method
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features and other physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5926267

EXTRACTION

Parameter	Data
Vapor Pressure	1 mm Hg
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that references a peer-reviewed source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: NIOSH

Study Citation:	Rumble, J. R. (2018). Flammability of chemical substances. :16-16 - 16-32.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	6655446

EXTRACTION	
Parameter	Data
Vapor Pressure	= 0.18 kPa
CASRN and Test Material	Not Reported; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	none; experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
System	Not reported
Standard Deviation Results	Not reported
Results Details	Not reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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Study Citation:	U.S. EPA, (1980). Ambient water quality criteria for dichlorobenzenes.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	1267074

EXTRACTION	
Parameter	Data
Vapor Pressure	1 mm Hg
CASRN and Test Material	95-50-1; Not Reported
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	20°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: From: Kirk, RE and DE Othmer 1963. Kirk-Othmer 8th Ed. John Wiley and Sons, Inc. NY and Jacobs, S. 1957. The Handbook of Solvents. D. Van Nostrand Co., Inc., New York.[Old edition of desk reference, unclear if this was previously extracted]

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5926141

EXTRACTION

Parameter	Data
Vapor Pressure	1.36 mm Hg
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that provides references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: PhysProp. Daubert, TE and Danner, RP 1989

Study Citation:	Yalkowsky, S. H., Mishra, D. S. (1991). Vapor pressure estimation for organic compounds. Science of the Total Environment 109-110(QSAR in Environmental Toxicology):243-250.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	598165

EXTRACTION	
Parameter	Data
Vapor Pressure	-2.71
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Secondary source, units not provided; calculated values testing validity of estimation equations. Primary source: Mackay, D, et al., 1982. Environ Sci Technol 16: 645-49, vp= 0.193e-2 atm at 25°C

EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance; however, temperature and VP units are not specified.
	Metric 2:	Appropriateness	Low	Secondary Source; measured data are consistent with the subject chemical's physical/chemical properties; however, temperature and VP units are not specified.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	Secondary Source; there is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Mackay, D, et al., 1982. Environ Sci Technol 16: 645-49

Study Citation:	Bahadur, N. P., Shiu, W. Y., Boocock, B., D.G., Mackay, D. (1997). Temperature dependence of octanol-water partition coefficient for selected chlorobenzenes. Journal of Chemical and Engineering Data 42(4):685-688.
OECD Harmonized Template:	logKow
HERO ID:	4912769

EXTRACTION	
Parameter	Data
log k_{ow}	3.29
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical; Liquid; 98.6% Notes: used as purchased without further purification
Temperature	25°C
System	Measured by a conventional shake-flask, batch-contracting method over the range of 5 to 45°C at 10°C intervals; 1 g/L test compound in 1-octanol, concentration below the solubility limit; wrist-action shaker for 24 hrs in 125 mL Erlenmeyer flask
pH	Not Reported
Results Details Method	aqueous phase extracted with hexane and directly injected onto GC column; octanol phase diluted prior to analysis on Hewlett-Packard 5880A gas chromatograph
Standard Deviation Results	±0.05
Results Details	van't Hoff plots of log Kow vs temp-1 exhibit linearity with log Kow increasing by 10-14% over temp range 5-45°C

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

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Study Citation:	Bahadur, N. P., Shiu, W. Y., Boocock, B., D.G., Mackay, D. (1997). Temperature dependence of octanol-water partition coefficient for selected chlorobenzenes. Journal of Chemical and Engineering Data 42(4):685-688.
OECD Harmonized Template:	logKow
HERO ID:	4912769

		EVALUATION	
Domain	Metric	Rating	Comments

Study Citation:	Braumann, T. (1986). Determination of hydrophobic parameters by reversed-phase liquid chromatography theory experimental techniques and application in studies of quantitative structure-activity relationships. Journal of Chromatography A 373(2):191-226.
OECD Harmonized Template:	logKow
HERO ID:	596434

EXTRACTION	
Parameter	Data
log k_{ow}	= 3.38 -
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	none; Experimental; not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Temperature	not reported
System	not reported
pH	not reported
Results Details Method	not reported
Standard Deviation Results	not reported
Results Details	not reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Hansch and Leo 1979 HERO ID 9837

Study Citation:	EC, (1987). Guidelines for Canadian drinking water quality: Guideline technical document – Dichlorobenzenes.
OECD Harmonized Template:	logKow
HERO ID:	7681885

EXTRACTION	
Parameter	Data
log k_{ow}	ca. 3 -
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	Not Reported
System	Not Reported
pH	Not Reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	gives same value for 1,2-DCB and 1,4-DCB

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

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Study Citation:	EC, (1987). Guidelines for Canadian drinking water quality: Guideline technical document – Dichlorobenzenes.
OECD Harmonized Template:	logKow
HERO ID:	7681885

		EVALUATION	
Domain	Metric	Rating	Comments
Overall Quality Determination		High	

* Related References: cited from cited from Holliday, M.G. and Engelhardt, F.R. Chlorinated benzenes. A criteria review. Prepared under contract to the Monitoring and Criteria Division, Department

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	logKow
HERO ID:	5926426

EXTRACTION	
Parameter	Data
log k_{ow}	3.28 - 3.42
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
pH	Not Reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	4 values were reported in Reaxys; Measured conditions were not reported.

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	IARC, (1999). Some chemicals that cause tumours of the kidney or urinary bladder in rodents and some other substances.			
OECD Harmonized Template:	logKow			
HERO ID:	666726			
EXTRACTION				
Parameter	Data			
log k _{ow}	3.43 -			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; NR			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR			
Temperature	NR			
System	NR			
pH	NR			
Results Details Method	NR			
Standard Deviation Results	NR			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
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Study Citation:	IARC, (1999). Some chemicals that cause tumours of the kidney or urinary bladder in rodents and some other substances.
OECD Harmonized Template:	logKow
HERO ID:	666726

Domain	Metric	EVALUATION Rating	Comments
Overall Quality Determination		High	

* Related References: Citing HERO ID 51424

Study Citation:	Mueller, M., Klein, W. (1992). Comparative evaluation of methods predicting water solubility for organic compounds. Chemosphere 25(6):769-782.			
OECD Harmonized Template:	logKow			
HERO ID:	654554			
EXTRACTION				
Parameter	Data			
log k _{ow}	3.57			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Calculation; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	Not reported			
System	Not reported			
pH	Not reported			
Results Details Method	Not reported			
Standard Deviation Results	Not reported			
Results Details	calculated Pow-values -MedChem-Software 1989			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Calculated data consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology’s objective is clear.
	Metric 4:	Reliability/Analytical Method	N/A	This matrix is not applicable to this calculated data.
Domain 3: Other	Metric 5:	Databases	N/A	This matrix is not applicable to this calculated data.
	Metric 6:	Models	High	The model had a defined, unambiguous endpoint and the model performance was known.
Overall Quality Determination		High		

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	logKow
HERO ID:	5926121

EXTRACTION	
Parameter	Data
log k_{ow}	3.43
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
pH	Not Reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a publicly available database that provides references to a peer-reviewed source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: Hansch, C., Leo, A., Hoekman, D. 1995. Exploring QSAR - Hydrophobic, Electronic, and Steric Constants, Washington, DC: American Chemical Society. P. 17.

Study Citation:	O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template:	logKow
HERO ID:	5926377

EXTRACTION	
Parameter	Data
log k_{ow}	3.43
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
pH	Not Reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High
	Metric 2:	Appropriateness	High
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium
	Metric 4:	Reliability/Analytical Method	Medium
Domain 3: Other	Metric 5:	Databases	High
	Metric 6:	Models	N/A

Overall Quality Determination

High

* Related References: O'Neil, M.J. (Ed.). 2013. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry. p. 553.

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	logKow
HERO ID:	5185293

EXTRACTION	
Parameter	Data
log k_{ow}	3.4
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	¹⁴ C-orthodichlorobenzene; NR; NR; NR
Temperature	25°C
System	NR
pH	NR
Results Details Method	NR
Standard Deviation Results	NR
Results Details	NR

EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Banerjee, S., Yalkowsky, SH., and Valvani, SC. (1980) Water solubility and octanol/water partition coefficients of organics. Limitations of the solubility-partition coefficient correlation. Environ Sci Technol, 14:1227-1229. HERO ID 4440635; Miller, MM., Wasik, SP., Huang, GL., Shiu, WY., Mackay, D. (1985) Relationship between octanol/water partition coefficient and aqueous solubility. Environ Sci Technol, 19:522-529. and the value was also calculated by Leo, A., CLOGP-3.63 (1991) Daylight, Chemical Information Systems, Inc. Irvine, CA USA

Study Citation:	Paschke, A., Popp, P., Schueuermann, G. (1998). Water solubility and octanol/water-partitioning of hydrophobic chlorinated organic substances determined by using SPME/GC. Fresenius' Journal of Analytical Chemistry 360(1):52-57.
OECD Harmonized Template:	logKow
HERO ID:	1992619

EXTRACTION	
Parameter	Data
log k_{ow}	3.45
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; >99% Notes: used without further purification.
Temperature	25°C
System	solid-phase microextraction (SPME)/GC, slow-stirring method
pH	Not reported
Results Details Method	GC/FID
Standard Deviation Results	Not Reported
Results Details	Value reported as the non-log value $(2.8 \pm 0.08) \cdot 10^3$ (n=3)

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	Peer-reviewed journal article referencing other literature values.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, solid-phase microextraction (SPME)/GC Kow: slow-stirring method similar to OECD 123.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination
High

Study Citation:	RIVM, (1991). Integrated criteria document chlorobenzenes. :281.			
OECD Harmonized Template:	logKow			
HERO ID:	5159927			
EXTRACTION				
Parameter	Data			
log k _{ow}	3.3			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	No; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	NR			
System	NR			
pH	NR			
Results Details Method	NR			
Standard Deviation Results	NR			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating		Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Citing Mackay and Shiu, 1981 J. Phys. Chem. Ref, Data, 10 (4), 1175-1199, No HERO ID. Verschuere (1983) HERO ID 5923756 and Kamlet, et al. (1988) HERO ID 2169142.

Study Citation:	Rumble, J. R., Lide, D. R., Bruno, T. J. (2018). Octanol-water partition coefficients. :5-148-5-187.			
OECD Harmonized Template:	logKow			
HERO ID:	5932746			
EXTRACTION				
Parameter	Data			
log k _{ow}	3.38			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	25°C			
System	Not Reported			
pH	Not Reported			
Results Details Method	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

Study Citation:	Sabljić, A., Gusten, H., Hermens, J., Opperhuizen, A. (1993). Modeling octanol/water partition coefficients by molecular topology: Chlorinated benzenes and biphenyls. Environmental Science & Technology 27(7):1394-1402.
OECD Harmonized Template:	logKow
HERO ID:	4932167

EXTRACTION	
Parameter	Data
log k_{ow}	3.433
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; OECD Guideline 123: Partition coefficient (1-octanol/water): slow-stirring method
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	slow stirring method
pH	Not Reported
Results Details Method	Not Reported
Standard Deviation Results	0.023
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features other physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: de Bruijn, J.; Busser, F.; Seinen, W.; Hermens, J. L. M. Environ. Toxicol. Chem. 1989, 8, 499-512.

Study Citation:	U.S. EPA, (2017). Original BAF and BCF Data.			
OECD Harmonized Template:	logKow			
HERO ID:	3970058			
EXTRACTION				
Parameter	Data			
log k_{ow}	3.43			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Not specified; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR			
Temperature	NR			
System	NR			
pH	NR			
Results Details Method	NR			
Standard Deviation Results	NR			
Results Details	Mean log kow of 3.43 also reported as a calculated value.			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Citing ATSDR (no year).

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	logKow
HERO ID:	5926141

EXTRACTION	
Parameter	Data
log k_{ow}	3.43
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
pH	Not Reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a publicly available database that references peer-reviewed original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: PhysProp. Hansch, C et al. 1995

Study Citation:	Verbruggen, E. M., Klamer, C., H.J., Villerius, L., Brinkman, T., U.A., Hermens, J. L. (1999). Gradient elution reversed-phase high-performance liquid chromatography for fractionation of complex mixtures of organic micropollutants according to hydrophobicity using isocratic retention parameters. Journal of Chromatography A 835(1-2):19-27.
OECD Harmonized Template:	logKow
HERO ID:	1333747

EXTRACTION	
Parameter	Data
log k_{ow}	3.42
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	Pure methanol; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Fluka, Aldrich-Chemie, Riedel-de Haen, Merck, Shell Nederland Chemie, J.T. Baker or Accu Standards; Liquid; High purity Notes: Analyte measured at concentrations of 0.5-5 mM/200 μ L total volume in methanol
Temperature	22 $\pm$ 0.2°C
System	Retention times measured with a solvent delivery system and UV detector operated at 254 nm. A C18-bonded silica column and guard column were used for retention. The eluent was a solution of HPLC-grade methanol and MilliQ water.
pH	Not reported
Results Details Method	Gradient elution RP-HPLC.
Standard Deviation Results	Not Reported
Results Details	Calculated from experimental retention times.

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Continued on next page ...

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Study Citation:	Verbruggen, E. M., Klamer, C., H.J., Villerius, L., Brinkman, T., U.A., Hermens, J. L. (1999). Gradient elution reversed-phase high-performance liquid chromatography for fractionation of complex mixtures of organic micropollutants according to hydrophobicity using isocratic retention parameters. Journal of Chromatography A 835(1-2):19-27.		
OECD Harmonized Template:	logKow		
HERO ID:	1333747		
		EVALUATION	
Domain	Metric	Rating	Comments

Study Citation:	Wasik, S. P., Miller, M. M., Tewari, Y. B., May, W. E., Sonnefeld, W. J., Voe, De, H., Zoller, W. H. (1983). Determination of the vapor pressure, aqueous solubility, and octanol/water partition coefficient of hydrophobic substances by coupled generator column/liquid chromatographic methods. 85:29-42.
OECD Harmonized Template:	logKow
HERO ID:	5184511

EXTRACTION	
Parameter	Data
log k_{ow}	3.38
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	No; commercial source; NR; >99% by GC
Temperature	25±0.05°C
System	generator column
pH	Not Reported
Results Details Method	HPLC
Standard Deviation Results	±0.03
Results Details	octanol-water partition coefficient calculated from measured concentration in equilibrated octanol and aqueous phases

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods.
Domain 3: Other	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Agroscience,, E.E., LLC, (2022). Determination of water solubility.
OECD Harmonized Template:	Water Solubility
HERO ID:	10290671

EXTRACTION	
Parameter	Data
Water Solubility	141 - mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; OPPTS 830.7840, Water Solubility: Column Elution Method
Solvent, Reactivity, Storage, and Stability	Hexane (for reference); NR; ambient in darkness; NR
Radiolabel, Source, State, and Purity	NR; Adpen; Sigma-Aldrich; Colorless liquid; 99.7% (GC) Notes: Received 01/07/2021 lot/batch# SHBL0459
Temperature	23± 0.1°C
System	Column elution method hybrid method based on U.S. EPA Product Properties Test Guideline, OPPTS 830.7840, Water Solubility: Column Elution Method; Shake Flask Method using a generator column per OPPTS 830.7860 with minor modifications instead of the OPPTS 830.7840 guideline recommended columns
pH	8.23 and 8.41 for reagent water at 23 and 37°±0.1°C studies, respectively. 8.05, 8.16 and 8.54, 8.00 for aqueous samples at 1 or 0.5 ml/min flow rates at 23 and 37°C, respectively
Results Details Method	GC-MS
Standard Deviation Results	141±4.8 (CV=3.4%) and 159±7.3 (CV=4.6%) at 23 and 37°C, respectively
Results Details	159 mg/L at 37±0.1°C

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use or includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Water Solubility
HERO ID:	5926426

EXTRACTION	
Parameter	Data
Water Solubility	92.3 - 170 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
System	Not Reported
pH	Not reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	19 data points were reported in Reaxys; 6 values were reported at 92.3 to 170 mg/L at standard temperature; 13 data points were measured at non-standard temperatures.

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	Ma, Y., J.H., Hung, H., Shiu, W. Y., Mackay, D. (2001). Temperature dependence of the aqueous solubility of selected chlorobenzenes and chlorotoluenes. Journal of Chemical and Engineering Data 46(3):619-622.
OECD Harmonized Template:	Water Solubility
HERO ID:	5247261

EXTRACTION	
Parameter	Data
Water Solubility	149 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; Nr
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical Co.; NR; 98% Notes: used without further purification
Temperature	25°C
System	Shake flask; wrist-action or magnetic stirrer for 24 hrs
pH	Not Reported
Results Details Method	Hewlett-Packard 5700A GC/FID
Standard Deviation Results	±8.2
Results Details	Fairly close agreement with supplied literature values. Values (g/cu m) at temp range of 5-45 deg C: 127, 5 deg C; 132, 15 deg C; 162, 35 deg C; 204, 45 deg C

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Mueller, M., Klein, W. (1992). Comparative evaluation of methods predicting water solubility for organic compounds. Chemosphere 25(6):769-782.			
OECD Harmonized Template:	Water Solubility			
HERO ID:	654554			
EXTRACTION				
Parameter	Data			
Water Solubility	145 mg/L			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Calculation; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	Not reported			
System	Statistical estimation in relation to partition coefficients.			
pH	Not reported			
Results Details Method	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Reported as 9.86E-4 mol/L			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Calculated data consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology’s objective is clear.
	Metric 4:	Reliability/Analytical Method	N/A	This matrix is not applicable to this calculated data.
Domain 3: Other	Metric 5:	Databases	N/A	This matrix is not applicable to this calculated data.
	Metric 6:	Models	High	The model had a defined, unambiguous endpoint and the model performance was known.
Overall Quality Determination		High		

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.
OECD Harmonized Template:	Water Solubility
HERO ID:	192177

EXTRACTION	
Parameter	Data
Water Solubility	0.01 - g/100 ml
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Temperature	68
System	NR
pH	NR
Results Details Method	NR
Standard Deviation Results	NR
Results Details	Solubility in water at 68°F reported as % by weight (g/100 ml)

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Nirmalakhandan, N. N., Speece, R. E. (1988). Prediction of aqueous solubility of organic chemicals based on molecular structure. Environmental Science & Technology 22(3):328-338.
OECD Harmonized Template:	Water Solubility
HERO ID:	654558

EXTRACTION	
Parameter	Data
Water Solubility	Not Reported
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Not specified; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
pH	Not Reported
Results Details Method	logS = -2.036
Standard Deviation Results	Not Reported
Results Details	Not reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for high designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Horvath, J.L., 1982. Halogenated Hydrocarbons. NY: Marcel-Dekker

Study Citation:	Nirmalakhandan, N. N., Speece, R. E. (1988). Prediction of aqueous solubility of organic chemicals based on molecular structure. Environmental Science & Technology 22(3):328-338.			
OECD Harmonized Template:	Water Solubility			
HERO ID:	654558			
EXTRACTION				
Parameter	Data			
Water Solubility	Not Reported			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Not specified; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	Not Reported			
System	Not Reported			
pH	Not Reported			
Results Details Method	logS = -2.036			
Standard Deviation Results	Not Reported			
Results Details	Not reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for high designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: Horvath, J.L., 1982. Halogenated Hydrocarbons. NY: Marcel-Dekker

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Water Solubility
HERO ID:	5926121

EXTRACTION	
Parameter	Data
Water Solubility	156 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
System	Not Reported
pH	Not reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a publicly available database that provides references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Yalkowsky, S.H., He, Yan. 2003. Handbook of Aqueous Solubility Data: An Extensive Compilation of Aqueous Solubility Data for Organic Compounds Extracted from the AQUASOL database. CRC Press LLC, Boca Raton, FL. P. 206

Study Citation:	O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template:	Water Solubility
HERO ID:	5926377

EXTRACTION	
Parameter	Data
Water Solubility	145 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
pH	Not reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a peer-reviewed data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: O'Neil, M.J. (Ed.). 2013. The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry. p. 553.

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Water Solubility
HERO ID:	5185293

EXTRACTION	
Parameter	Data
Water Solubility	155.8 mg/L
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; Experimental; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
System	NR
pH	NR
Results Details Method	NR
Standard Deviation Results	NR
Results Details	NR

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Citing Banerjee, S., Yalkowsky, SH., and Valvani, SC. (1980) Water solubility and octanol/water partition coefficients of organics. Limitations of the solubility-partition coefficient correlation. Environ Sci Technol, 14:1227-1229. HERO ID 4440635.andNICNAS, (2001). Ortho-dichlorobenzene, Priority Existing Chemical Assessment Report No. 14. HERO ID 5155563.

Study Citation:	Oleszek-Kudlak, S., Shibata, E., Nakamura, T. (2004). The effects of temperature and inorganic salts on the aqueous solubility of selected chlorobenzenes. Journal of Chemical and Engineering Data 49(3):570-575.
OECD Harmonized Template:	Water Solubility
HERO ID:	2179496

EXTRACTION	
Parameter	Data
Water Solubility	93.7 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	Hexane; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Wako Pure Chemical Industries, Ltd.; Liquid; 98.0
Temperature	25°C
System	OPPTS guideline. Generator column method; stock standard solutions (100 mg/L) prepared in hexane; working standard solutions for calibration curves; obtained by dilution with hexane from stock solutions; carried out at 2 independent flow rates
pH	Not Reported
Results Details Method	Inductively coupled plasma spectrometry
Standard Deviation Results	3.8%
Results Details	Flow rate: 0.50 mL/min

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination
High

Study Citation:	Oleszek-Kudlak, S., Shibata, E., Nakamura, T. (2004). The effects of temperature and inorganic salts on the aqueous solubility of selected chlorobenzenes. Journal of Chemical and Engineering Data 49(3):570-575.			
OECD Harmonized Template:	Water Solubility			
HERO ID:	2179496			
EXTRACTION				
Parameter	Data			
Water Solubility	94.4 mg/L			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	Hexane; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; Wako Pure Chemical Industries, Ltd.; Liquid; 98.0			
Temperature	25°C			
System	OPPTS guideline. Generator column method; stock standard solutions (100 mg/L) prepared in hexane; working standard solutions for calibration curves; obtained by dilution with hexane from stock solutions; carried out at 2 independent flow rates			
pH	Not Reported			
Results Details Method	Inductively coupled plasma spectrometry			
Standard Deviation Results	4.8%			
Results Details	Flow rate: 1.10 mL/min			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology’s objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

Study Citation:	Paschke, A., Popp, P., Schueuermann, G. (1998). Water solubility and octanol/water-partitioning of hydrophobic chlorinated organic substances determined by using SPME/GC. Fresenius' Journal of Analytical Chemistry 360(1):52-57.
OECD Harmonized Template:	Water Solubility
HERO ID:	1992619

EXTRACTION	
Parameter	Data
Water Solubility	97 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; OECD Guideline 105: Water solubility
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; >99% Notes: used without further purification.
Temperature	25±0.5°C
System	Column Elution Method
pH	Not reported
Results Details Method	GC/FID
Standard Deviation Results	±1.9 (n=6)
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	Peer-reviewed journal article referencing other literature values.
	Metric 4:	Reliability/Analytical Method	High	Solid-phase microextraction (SPME)/GC comparable to OECD 105.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	RIVM, (1991). Integrated criteria document chlorobenzenes. :281.			
OECD Harmonized Template:	Water Solubility			
HERO ID:	5159927			
EXTRACTION				
Parameter	Data			
Water Solubility	144 mg/L			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	No; not specified; NR			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	20°C			
System	NR			
pH	NR			
Results Details Method	NR			
Standard Deviation Results	NR			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 4:	Reliability/Analytical Method	N/A	Rating of this factor is not applicable to this kind of information.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Citing Mackay and Shiu, 1981 J. Phys. Chem. Ref, Data, 10 (4), 1175-1199, No HERO ID. Verschuere (1983) HERO ID 5923756 and Kamlet, et al. (1988) HERO ID 2169142.

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Water Solubility
HERO ID:	5926267

EXTRACTION	
Parameter	Data
Water Solubility	100 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
pH	Not reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that references a peer-reviewed source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: NIOSH

Study Citation:	Rumble, J. R. (2018). Aqueous solubility and Henry’s law constants of organic compounds. :5-148 - 5-177.			
OECD Harmonized Template:	Water Solubility			
HERO ID:	5932745			
EXTRACTION				
Parameter	Data			
Water Solubility	120 mg/L			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	5°C			
System	Not Reported			
pH	Not reported			
Results Details Method	Originally reported as 0.12 g/kg H2O, converted using CRC handbook’s reported water density at 5 C.			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical’s physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

Study Citation:	Rumble, J. R. (2018). Aqueous solubility and Henry's law constants of organic compounds. :5-148 - 5-177.
OECD Harmonized Template:	Water Solubility
HERO ID:	5932745

EXTRACTION	
Parameter	Data
Water Solubility	150 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
System	Not Reported
pH	Not reported
Results Details Method	Originally reported as 0.15 g/kg H2O, converted using CRC handbook's reported water density at 25 C.
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Rumble, J. R. (2018). Aqueous solubility and Henry's law constants of organic compounds. :5-148 - 5-177.
OECD Harmonized Template:	Water Solubility
HERO ID:	5932745

EXTRACTION	
Parameter	Data
Water Solubility	200 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	45°C
System	Not Reported
pH	Not reported
Results Details Method	Originally reported as 0.2 g/kg H2O, converted using CRC handbook's reported water density at 45 C.
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination
High

Study Citation:	U.S. EPA, (1980). Ambient water quality criteria for dichlorobenzenes.
OECD Harmonized Template:	Water Solubility
HERO ID:	1267074

EXTRACTION	
Parameter	Data
Water Solubility	145 mg/L
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	water; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	25C
System	Not Reported
pH	Not Reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	Reported as 145,000 ug/L

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: From: Jacobs, S. 1957. The Handbook of Solvents. D. Van Nostrand Co., Inc., New York. [Old edition of desk reference, unclear if this was previously extracted]

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Water Solubility
HERO ID:	5926141

EXTRACTION	
Parameter	Data
Water Solubility	156 mg/L
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
System	Not Reported
pH	Not reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that provides references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: PhysProp. Banerjee, S et al. 1980

Study Citation:	Krishnamurti, R. (2001). Chlorinated benzenes.
OECD Harmonized Template:	Flash Point
HERO ID:	5177139

EXTRACTION

Parameter	Data
Flash Point	71 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; ASTM method D56-70, Closed cup
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not reported
Standard Deviation Results	Not reported
Results Details	Not reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a data collection that is prepared by experts in the field.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	6629632			
EXTRACTION				
Parameter	Data			
Flash Point	150 F			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; not specified; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	Not reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: CAMEO Chemicals; available at: <https://cameochemicals.noaa.gov/chemical/6211>

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	6629632			
EXTRACTION				
Parameter	Data			
Flash Point	151 F			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; not specified; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	Not reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: National Toxicology Program, Institute of Environmental Health Sciences, National Institutes of Health (NTP). 1992. National Toxicology Program Chemical Repository Database. Research Triangle Park, North Carolina.

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.
OECD Harmonized Template:	Flash Point
HERO ID:	6629632

EXTRACTION	
Parameter	Data
Flash Point	155 F
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Open cup
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not Reported
Standard Deviation Results	Not reported
Results Details	151°F, closed cup

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5: Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Clayton, G.D., F.E. Clayton (eds.) Patty's Industrial Hygiene and Toxicology. Volumes 2A, 2B, 2C, 2D, 2E, 2F: Toxicology. 4th ed. New York, NY: John Wiley & Sons Inc., 1993-1994., p. 1455

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	6629632			
EXTRACTION				
Parameter	Data			
Flash Point	68 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Closed cup			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	74°C, open cup			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: American Conference of Governmental Industrial Hygienists. Documentation of the TLV's and BEI's with Other World Wide Occupational Exposure Values. CD-ROM Cincinnati, OH 45240-1634 2007.

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	6629632			
EXTRACTION				
Parameter	Data			
Flash Point	66 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Closed cup			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	Not reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: ILO International Chemical Safety Cards (ICSC). https://www.ilo.org/dyn/icsc/showcard.display?p_version=2&p_card_id=1066

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.
OECD Harmonized Template:	Flash Point
HERO ID:	6629632

EXTRACTION	
Parameter	Data
Flash Point	151 F
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; not specified; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not Reported
Standard Deviation Results	Not reported
Results Details	Not reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5: Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Occupational Safety and Health Administration (OSHA). The National Institute for Occupational Safety and Health (NIOSH). <https://www.cdc.gov/niosh/npg/npgd0189.html>

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized Template:	Flash Point
HERO ID:	9641569

EXTRACTION

Parameter	Data
Flash Point	155 - F
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
System	open cup
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from Clayton, G.D., F.E. Clayton (eds.) Patty's Industrial Hygiene and Toxicology. Volumes 2A, 2B, 2C, 2D, 2E, 2F: Toxicology. 4th ed. New York, NY: John Wiley & Sons Inc., 1993-1994., p. 1455 (HERO ID: 5348435)

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.		
OECD Harmonized Template:	Flash Point		
HERO ID:	9641569		
EXTRACTION			
Parameter	Data		
Flash Point	151 - F		
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene		
Confidentiality, Type, and Guideline	no; not specified; Not Reported		
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported		
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported		
System	closed cup		
Standard Deviation Results	Not Reported		
Results Details	Not Reported		
EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High	

* Related References: cited from Clayton, G.D., F.E. Clayton (eds.) Patty's Industrial Hygiene and Toxicology. Volumes 2A, 2B, 2C, 2D, 2E, 2F: Toxicology. 4th ed. New York, NY: John Wiley & Sons Inc., 1993-1994., p. 1455 (HERO ID: 5348435)

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized Template:	Flash Point
HERO ID:	9641569

EXTRACTION	
Parameter	Data
Flash Point	74 - C
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
System	open cup
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: cited from American Conference of Governmental Industrial Hygienists. Documentation of the TLV's and BEI's with Other World Wide Occupational Exposure Values. CD-ROM Cincinnati, OH 45240-1634 2007.

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized Template:	Flash Point
HERO ID:	9641569

EXTRACTION

Parameter	Data
Flash Point	68 - C
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
System	closed cup
Standard Deviation Results	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: cited from American Conference of Governmental Industrial Hygienists. Documentation of the TLV's and BEI's with Other World Wide Occupational Exposure Values. CD-ROM Cincinnati, OH 45240-1634 2007.

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.
OECD Harmonized Template:	Flash Point
HERO ID:	192177

EXTRACTION

Parameter	Data
Flash Point	151 - F
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; closed cup
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
System	closed cup
Standard Deviation Results	NR
Results Details	NR

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template:	Flash Point
HERO ID:	5926377

EXTRACTION

Parameter	Data
Flash Point	66 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Closed cup
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not Reported
Standard Deviation Results	Not reported
Results Details	66°C (151°F)

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Flash Point
HERO ID:	5185293

EXTRACTION

Parameter	Data
Flash Point	66 C
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; experimental; closed cup, DIN 51758
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	NR
Standard Deviation Results	NR
Results Details	Also reported as 150°F

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Citing Sax, NI and Lewis RJ Sr. 1996. Sax's Dangerous Properties of Industrial Materials. 9th ed. New York, NY, Van Nostrand Reinhold Company. No HERO ID. Bayer AG Leverkusen, and NICNAS, (2001). Ortho-dichlorobenzene, Priority Existing Chemical Assessment Report No. 14. HERO ID 5155563.

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Flash Point
HERO ID:	5185293

EXTRACTION	
Parameter	Data
Flash Point	66 C
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; experimental; closed cup, DIN 51758
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	NR
Standard Deviation Results	NR
Results Details	Also reported as 150°F

		EVALUATION		
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of informati

Overall Quality Determination **High**

* Related References: Citing Sax, NI and Lewis RJ Sr. 1996. Sax's Dangerous Properties of Industrial Materials. 9th ed. New York, NY, Van Nostrand Reinhold Company. No HERO ID. Bayer AG Leverkusen, and NICNAS, (2001). Ortho-dichlorobenzene, Priority Existing Chemical Assessment Report No. 14. HERO ID 5155563.

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5185293			
EXTRACTION				
Parameter	Data			
Flash Point	68 C			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	No; experimental; closed cup, Method NFT 60-103			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	NR			
Standard Deviation Results	NR			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of informati
Overall Quality Determination		High		

* Related References: Citing ELF ATOCHEM S.A., France Bayer AG Leverkusen

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Flash Point
HERO ID:	5926267

EXTRACTION	
Parameter	Data
Flash Point	68 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not Reported
Standard Deviation Results	Not reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Alfa Aesar

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Flash Point	66 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: LabNetwork

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Flash Point	66.1 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	66.1°C (151°F)			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	High	Data is from a publicly available database that provides references to the original, peer-reviewed source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: NIOSH

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Flash Point	66 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	High	Data is from a publicly available database that provides references to the original, peer-reviewed source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Sigma-Aldrich

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Flash Point	66 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Oakwood

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Flash Point	154.4 F			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Alfa Aesar

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Flash Point	66 C			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not Reported			
Standard Deviation Results	Not reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: SynQuest

Study Citation:	Rumble, J. R. (2018). Flammability of chemical substances. :16-16 - 16-32.
OECD Harmonized Template:	Flash Point
HERO ID:	6655446

EXTRACTION

Parameter	Data
Flash Point	66 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not reported
Standard Deviation Results	Not reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a known data-collection, prepared by experts in the field.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Krishnamurti, R. (2001). Chlorinated benzenes.
OECD Harmonized Template:	Autoflammability
HERO ID:	5177139

EXTRACTION

Parameter	Data
Auto-flammability	640 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not reported
Standard Deviation Results	Not reported
Results Details	Not reported
Results Value	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The data is from a data collection that is prepared by experts in the field and available for public review.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.
OECD Harmonized Template:	Autoflammability
HERO ID:	6629632

EXTRACTION	
Parameter	Data
Auto-flammability	1198 F
CASRN and Test Material	95-50-1; 1,2-DCB
Confidentiality, Type, and Guideline	None; Experimental; Not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not reported
Standard Deviation Results	Not reported
Results Details	Not Reported
Results Value	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: U.S. Coast Guard. 1999. Chemical Hazard Response Information System (CHRIS) - Hazardous Chemical Data. Commandant Instruction 16465.12C. Washington, D.C.: U.S. Government Printing Office.

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,2-dichlorobenzene.			
OECD Harmonized Template:	Autoflammability			
HERO ID:	6629632			
EXTRACTION				
Parameter	Data			
Auto-flammability	648 C			
CASRN and Test Material	95-50-1; 1,2-DCB			
Confidentiality, Type, and Guideline	None; Experimental; Not specified			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
System	Not reported			
Standard Deviation Results	Not reported			
Results Details	Not Reported			
Results Value	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: American Conference of Governmental Industrial Hygienists. Documentation of the TLV's and BEI's with Other World Wide Occupational Exposure Values. CD-ROM Cincinnati, OH 45240-1634 2007.

Study Citation:	Rumble, J. R. (2018). Flammability of chemical substances. :16-16 - 16-32.
OECD Harmonized Template:	Autoflammability
HERO ID:	6655446

EXTRACTION

Parameter	Data
Auto-flammability	648 C
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; not specified; Not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
System	Not reported
Standard Deviation Results	Not reported
Results Details	Not reported
Results Value	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer- reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a known data-collection, prepared by experts in the field.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Baragi, J. G., Aralaguppi, M. I., Aminabhavi, T. M., Kariduraganavar, M. Y., Kulkarni, S. S. (2005). Density, viscosity, refractive index, and speed of sound for binary mixtures of 1,4-dioxane with different organic liquids at (298.15, 303.15, and 308.15) K. Journal of Chemical and Engineering Data 50(3):917-923.
OECD Harmonized Template:	Viscosity
HERO ID:	3572152

EXTRACTION	
Parameter	Data
Viscosity	1.324
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	No; SD Fine Chemicals (Mumbai, India); Liquid; >99 mol% Notes: purity determined by GC/FID
Temperature	298.15 K
Test Conditions	Cannon Fenske viscometer
Standard Deviation Results	Uncertainty ± 0.001 mPa.s
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Viscosity
HERO ID:	5926426

EXTRACTION

Parameter	Data
Viscosity	1.272 - 2.8
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
Test Conditions	Not Reported
Standard Deviation Results	Not Reported
Results Details	At 25°C; 21 values were reported in Reaxys; 3 values were reported in the range of 1.272 to 8 at 25°C; 18 values were outside this range or measured at non-standard temperatures.

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance			
	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability			
	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other			
	Metric 5: Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Viscosity
HERO ID:	5926121

EXTRACTION

Parameter	Data
Viscosity	1.324
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	Not Reported
Test Conditions	Not Reported
Standard Deviation Results	Not Reported
Results Details	1.324 mPa.S

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available, peer-reviewed database that provides references to a recognized data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Lide, D.R. 2005. CRC Handbook of Chemistry and Physics. 86th edition. CRC Press, Taylor & Francis, Boca Raton, FL 2005.

Study Citation:	Rumble, J. R. (2018). Viscosity of liquids. :6-234 - 6-237.
OECD Harmonized Template:	Viscosity
HERO ID:	5932747

EXTRACTION

Parameter	Data
Viscosity	1.324
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
Test Conditions	Not Reported
Standard Deviation Results	Not Reported
Results Details	1.958 cP at 0°C; 0.962 cP at 50°C; 0.739 cP at 75°C; 0.593 cP at 100°C

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a peer-reviewed data collection.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Baragi, J. G., Aralaguppi, M. I., Aminabhavi, T. M., Kariduraganavar, M. Y., Kulkarni, S. S. (2005). Density, viscosity, refractive index, and speed of sound for binary mixtures of 1,4-dioxane with different organic liquids at (298.15, 303.15, and 308.15) K. Journal of Chemical and Engineering Data 50(3):917-923.
OECD Harmonized Template:	Refractive Index
HERO ID:	3572152

EXTRACTION	
Parameter	Data
Refractive Index	1.5499
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	No; SD Fine Chemicals (Mumbai, India); Liquid; >99 mol% Notes: purity determined by GC/FID
Temperature	298.15 K
System	Thermostatically controlled Abbe refractometer
Standard Deviation Results	uncertainty ± 0.0001
Results Details	Minimum of 3 readings
Results Details Methods	Not Reported
Parameter	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination
High

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Refractive Index
HERO ID:	5926426

EXTRACTION

Parameter	Data
Refractive Index	1.5424 - 1.5729
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	20-25°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	20-25°C; 36 values were reported in Reaxys; 26 values were reported in the range of 1.5424 to 1.5729 at 20-25°C; 10 values were outside this range or measured at unreported or non-standard temperatures.
Results Details Methods	Not Reported
Parameter	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	Marshall, K. A., Pottenger, L. H. (2016). Chlorocarbons and chlorohydrocarbons. :1-29.
OECD Harmonized Template:	Refractive Index
HERO ID:	3828879

EXTRACTION

Parameter	Data
Refractive Index	1.5515 -
CASRN and Test Material	95-50-1; Not Reported
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	20C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported
Results Details Methods	Not Reported
Parameter	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	N/A	Rating of this factor is not applicable to information from this secondary source.
	Metric 4: Reliability/Analytical Method	N/A	Rating of this factor is not applicable to information from this secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information

Overall Quality Determination

High

* Related References: Kirk-Othmer Encyclopedia of Chemical Technology. Copyright # 2016 John Wiley & Sons, Inc. All rights reserved.DOI: 10.1002/0471238961.1921182218050504.a01.pub3

Study Citation:	NTP, (1985). Toxicology and Carcinogenesis Studies of 1,2-Dichlorobenzene (o-Dichlorobenzene) (CAS No. 95-50-1) in F344/N Rats and B6C3F1 Mice (Gavage Studies). 255:1-195.
OECD Harmonized Template:	Refractive Index
HERO ID:	1944492

EXTRACTION	
Parameter	Data
Refractive Index	1.5496
CASRN and Test Material	95-50-1; o-Dichlorobenzene
Confidentiality, Type, and Guideline	No; Experimental; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: water analysis = 0.016 +/-0.001%
Temperature	20
System	NR
Standard Deviation Results	0.0001
Results Details	Literature values also reported: 1.5515 at 20 deg C and 1.5491 at 25 deg C (Merck Index, 1976)
Results Details Methods	NR
Parameter	NR

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template:	Refractive Index
HERO ID:	5926377

EXTRACTION	
Parameter	Data
Refractive Index	1.5515
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	20°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported
Results Details Methods	Not Reported
Parameter	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation: O'Neil, M. J. (2013). 1,2-Dichlorobenzene. 95-50-1. :553.
OECD Harmonized Template: Refractive Index
HERO ID: 5926377

EXTRACTION	
Parameter	Data
Refractive Index	1.5491
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported
Results Details Methods	Not Reported
Parameter	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Refractive Index			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Refractive Index	1.551			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
Results Details Methods	Not Reported			
Parameter	Not Reported			
EVALUATION				
Domain	Metric	Rating		Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Alfa Aesar

Study Citation:	RSC, (2019). ChemSpider: 1,2-Dichlorobenzene.			
OECD Harmonized Template:	Refractive Index			
HERO ID:	5926267			
EXTRACTION				
Parameter	Data			
Refractive Index	1.551			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Temperature	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
Results Details Methods	Not Reported			
Parameter	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other	Metric 5:	Databases	Medium	Data is from a publicly available secondary source with references to non-peer reviewed sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: SynQuest

Study Citation:	Rumble, J. R. (2018). 1,2-dichlorobenzene. :3-16.
OECD Harmonized Template:	Refractive Index
HERO ID:	5348704

EXTRACTION	
Parameter	Data
Refractive Index	1.5515
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	20°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported
Results Details Methods	Not Reported
Parameter	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Hovorka, S., Dohnal, V. (1997). Determination of air-water partitioning of volatile halogenated hydrocarbons by the inert gas stripping method. Journal of Chemical and Engineering Data 42(5):924-933.
OECD Harmonized Template:	Henry's Law
HERO ID:	5441348

EXTRACTION	
Parameter	Data
Henry's Law	7.65 - MPa
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Non-guideline; Inert Gas Stripping Method
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; various suppliers; NR; >99 mol % or higher Notes: Analytical or pure grade chemical
Temperature	293.15 K
pH	NR
System	Equilibrium stripping in an all-glass jacketed device with the presaturator (P) and the dilution cell (D). Constant flow of stripping gas (N2) with vigorous mixing for 2-5 hours. Equilibrium cell connected and stripping gas introduced.
Standard Deviation Results	Relative standard errors ~1%
Results Details	HLC defined as $\lim (x_1 \rightarrow 0)$ solute fugacity/solute mole fraction in the liquid solution. $K_{aw} = 57,800$, where $K_{aw} = \lim (cwl)$ solute concentrations in air / solute concentrations in water
Results Details Methods	gas chromatograph (GC) with a flame ionization detector (FID)

EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

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Study Citation:	Hovorka, S., Dohnal, V. (1997). Determination of air-water partitioning of volatile halogenated hydrocarbons by the inert gas stripping method. Journal of Chemical and Engineering Data 42(5):924-933.
OECD Harmonized Template:	Henry's Law
HERO ID:	5441348

Domain	Metric	EVALUATION Rating	Comments
Overall Quality Determination		High	

Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized Template:	Henry's Law
HERO ID:	9641569

EXTRACTION	
Parameter	Data
Henry's Law	0.0015 atm-cu m/mol
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	20 C
pH	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported
Results Details Methods	reported as Henry's law constant

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties (e.g., if the physical state is described as a liquid, the substance should have a melting point below 25°C and a boiling point above 25°C) or behaviors.
	Metric 2: Appropriateness	High	
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome. The analytical method is non-standard but is expected to be appropriate OR the analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
	Metric 4: Reliability/Analytical Method	Medium	
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources. Rating of this factor is not applicable to this kind of information.
	Metric 6: Models	N/A	

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Study Citation:	NCBI, (2020). PubChem Compound Summary for CID 7239, 1,2-Dichlorobenzene.
OECD Harmonized	Henry's Law
Template:	
HERO ID:	9641569

		EVALUATION	
Domain	Metric	Rating	Comments
Overall Quality Determination		High	

* Related References: cited from Staudinger J, Roberts PV; Crit Rev Environ Sci Technol 26: 205-297 (1996)

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.
OECD Harmonized Template:	Henry's Law
HERO ID:	10225162

EXTRACTION	
Parameter	Data
Henry's Law	0.49 - mol/kg*bar
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	no; not specified; Not Reported
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported
Temperature	Not Reported
pH	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported
Results Details Methods	Temperature dependence constant = 5100 KNotes that the information presented comes from another paper or personal communication.

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5: Databases	Low	The data are from a primary source without expert peer-review or an unknown secondary source without peer-review and references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Missing citation give several references for the Henry's Law constants but don't assign them to specific species.Does not seem well documented.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Henry’s Law			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Henry’s Law	0.53 - mol/kg*bar			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
pH	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
Results Details Methods	Notes that the cited paper is a literature review and original publication of a measured value.			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Low	The data are from a primary source without expert peer-review or an unknown secondary source without peer-review and references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Missing citation give several references for the Henry's Law constants but don't assign them to specific species. Does not seem well documented.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Henry’s Law			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Henry’s Law	0.59 - mol/kg*bar			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
pH	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
Results Details Methods	Temperature dependent constant=6700 KNotes that the information presented comes from another paper or personal communication.			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Low	The data are from a primary source without expert peer-review or an unknown secondary source without peer-review and references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Missing citation give several references for the Henry's Law constants but don't assign them to specific species.Does not seem well documented.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Henry’s Law			
HERO ID:	10225162			
EXTRACTION				
Parameter		Data		
Henry’s Law		0.54 - mol/kg*bar		
CASRN and Test Material		95-50-1; 1,2-dichlorobenzene		
Confidentiality, Type, and Guideline		no; not specified; Not Reported		
Solvent, Reactivity, Storage, and Stability		Not Reported; Not Reported; Not Reported; Not Reported		
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Reported; Not Reported		
Temperature		Not Reported		
pH		Not Reported		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
Results Details Methods		Temperature dependence constant = 5900 KNotes that the cited paper is a literature review.		
EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability				
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other				
	Metric 5:	Databases	Low	The data are from a primary source without expert peer-review or an unknown secondary source without peer-review and references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination			Medium	

* Related References: Missing citation give several references for the Henry's law constants but don't assign them to specific species.Does not seem well documented.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Henry’s Law			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Henry’s Law	0.53 - mol/kg*bar			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
pH	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
Results Details Methods	Temperature dependent constant=1400 KNotes that the information presented comes from another paper or personal communication.			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Low	The data are from a primary source without expert peer-review or an unknown secondary source without peer-review and references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Missing citation give several references for the Henry's Law constants but don't assign them to specific species.Does not seem well documented.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Henry’s Law			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Henry’s Law	0.33 - mol/kg*bar			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
pH	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
Results Details Methods	Notes that the cited paper doesn’t clearly state how the value was obtained.			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Low	The data are from a primary source without expert peer-review or an unknown secondary source without peer-review and references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Missing citation give several references for the Henry's Law constants but don't assign them to specific species.Does not seem well documented.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Henry’s Law			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Henry’s Law	0.52 - mol/kg*bar			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
pH	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
Results Details Methods	Temperature dependent constant=2800 KNotes that the information presented comes from another paper or personal communication.			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.	
	Metric 2: Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.	
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.	
	Metric 4: Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used	
Domain 3: Other	Metric 5: Databases	Low	The data are from a primary source without expert peer-review or an unknown secondary source without peer-review and references to the original sources.	
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.	
Overall Quality Determination		Medium		

* Related References: Missing citation give several references for the Henry's Law constants but don't assign them to specific species.Does not seem well documented.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Benzene, 1,2-dichloro- (95-50-1). Standard Reference Database No. 69.			
OECD Harmonized Template:	Henry’s Law			
HERO ID:	10225162			
EXTRACTION				
Parameter	Data			
Henry’s Law	0.41 - mol/kg*bar			
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene			
Confidentiality, Type, and Guideline	no; not specified; Not Reported			
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported			
Radiolabel, Source, State, and Purity	Not Reported; Not Reported; Not Reported; Not Reported			
Temperature	Not Reported			
pH	Not Reported			
System	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Not Reported			
Results Details Methods	Notes that vapor pressure of the pure substance is used to determine the Henry’s law constant.			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used
Domain 3: Other	Metric 5:	Databases	Low	The data are from a primary source without expert peer-review or an unknown secondary source without peer-review and references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		Medium		

* Related References: Missing citation give several references for the Henry's Law constants but don't assign them to specific species. Does not seem well documented.

Study Citation:	NLM, (2014). PubChem: Hazardous Substance Data Bank: 1,2-Dichlorobenzene, 95-50-1.
OECD Harmonized Template:	Henry's Law
HERO ID:	5926121

EXTRACTION

Parameter	Data
Henry's Law	0.0015 atm-m ³ /mol
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	20°C
pH	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported
Results Details Methods	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that provides references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Staudinger, J, Roberts, P.V.. 1996. Crit Rev Environ Sci Technol 26: 205-297.

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Henry's Law
HERO ID:	5185293

EXTRACTION	
Parameter	Data
Henry's Law	159 Pa.m ³ /mol
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; Experimental; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
pH	NR
System	NR
Standard Deviation Results	NR
Results Details	experimental values = 165 Pa m ³ /mol at 10°C, 145 Pa m ³ /mol at 15°C, 170 Pa m ³ /mol at 20°C, 159 Pa m ³ /mol at 25°C. 240 Pa m ³ /mol at 30°C
Results Details Methods	Not Reported

EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Citing Bayer AG Leverkusen

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Henry's Law
HERO ID:	5185293

EXTRACTION	
Parameter	Data
Henry's Law	193 Pa.m ³ /mol
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; Calculated; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
pH	NR
System	NR
Standard Deviation Results	NR
Results Details	Calculated as 193 Pa m ³ /mol at 25°C, 190-198 Pa m ³ /mol at 25°C, 172 Pa m ³ /mol at 20°C, 21.6 Pa m ³ /mol at 20°C, 219 Pa m ³ /mol at 20°C
Results Details Methods	NR

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Citing Bayer AG Leverkusen

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Henry's Law
HERO ID:	5185293

EXTRACTION	
Parameter	Data
Henry's Law	193 Pa.m ³ /mol
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; Not specified; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
pH	NR
System	NR
Standard Deviation Results	NR
Results Details	NR
Results Details Methods	NR

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Citing Mackay and Shiu, 1981 J. Phys. Chem. Ref, Data, 10 (4), 1175-1199, No HERO ID. and NICNAS, (2001). Ortho-dichlorobenzene, Priority Existing Chemical Assessment Report No. 14. HERO ID 5155563.

Study Citation:	OECD, (2001). SIDS initial assessment report for 13th SIAM: 1,2-Dichlorobenzene.
OECD Harmonized Template:	Henry's Law
HERO ID:	5185293

EXTRACTION	
Parameter	Data
Henry's Law	290 Pa.m ³ /mol
CASRN and Test Material	95-50-1; 1,2-dichlorobenzene
Confidentiality, Type, and Guideline	No; Experimental; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	37°C
pH	NR
System	based on an experimental water/air coefficient = 9.0 +/- 1
Standard Deviation Results	30 Pa m ³ /mol
Results Details	Not Reported
Results Details Methods	Not Reported

EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Citing Bayer AG Leverkusen

Study Citation:	Shiu, W. Y., Mackay, D. (1997). Henry's law constants of selected aromatic hydrocarbons, alcohols, and ketones. Journal of Chemical and Engineering Data 42(1):27-30.
OECD Harmonized Template:	Henry's Law
HERO ID:	5184510

EXTRACTION	
Parameter	Data
Henry's Law	195 - Pa m ³ /mol
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Non-guideline; equilibrium gas stripping method (Mackay et al., 1979)
Solvent, Reactivity, Storage, and Stability	cyclohexane; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical Co.; NR; highest commercially available quality Notes: NR
Temperature	25 °C
pH	NR
System	25 °C temperature baths; chemical was purged from the water into a Tenax-GC trap, thermosorbed and then the sorbed chemical was sent to the analytical column by the carrier gas.
Standard Deviation Results	+/- 4.5
Results Details	Not Reported
Results Details Methods	Concentration in water by gas chromatographic analysis followed by a purge-and-trap analysis

EVALUATION				
Domain		Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties or behaviors.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

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Study Citation:	Shiu, W. Y., Mackay, D. (1997). Henry's law constants of selected aromatic hydrocarbons, alcohols, and ketones. Journal of Chemical and Engineering Data 42(1):27-30.
OECD Harmonized Template:	Henry's Law
HERO ID:	5184510

		EVALUATION	
Domain	Metric	Rating	Comments

Study Citation:	U.S. EPA, (2019). Chemistry Dashboard Information for 1,2-Dichlorobenzene. 95-50-1..
OECD Harmonized Template:	Henry's Law
HERO ID:	5926141

EXTRACTION

Parameter	Data
Henry's Law	0.00192 atm-m3/mol
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25°C
pH	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Not Reported
Results Details Methods	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a publicly available database that provides references to original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: PhysProp. Shiu, WY and Mackay, D 1997

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926426

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	10.36 -
Temperature	20°C
System	20°C
Results Value	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

* Related References: Laurence, Christian; Nicolet, Pierre; Dalati, M. Tawfik; Abboud, Jose-Luis M.; Notario, Rafael; Journal of Physical Chemistry; vol. 98; nb. 23; (1994); p. 5807 - 5816.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926426

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	7.5 -
Temperature	20°C
System	20°C
Results Value	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: Ulich; Zeitschrift fur Elektrochemie und angewandte physikalische Chemie; vol. 31; (1925); p. 413. Walden; Ulich; Werner; Zeitschrift fur Physikalische Chemie, Stoechiometrie und Verwandtschaftslehre; vol. 116; (1925); p. 264.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..			
OECD Harmonized Template:	Dielectric Constant			
HERO ID:	5926426			
EXTRACTION				
Parameter	Data			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Dielectric Constant	8.9 -			
Temperature	50°C			
System	50°C			
Results Value	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: Smyth; Morgan; Boyce; Journal of the American Chemical Society; vol. 50; (1928); p. 1544.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926426

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	8.515 - 9.939
Temperature	25-65°C
System	25-65°C
Results Value	Not Reported
Results Details	Static Dielectric Constant

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: Curry; Gilkerson; Journal of the American Chemical Society; vol. 79; (1957); p. 4021.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926426

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	9.93 -
Temperature	25°C
System	25°C
Results Value	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: Smyth; Morgan; Boyce; Journal of the American Chemical Society; vol. 50; (1928); p. 1544.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926426

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	9.82 -
Temperature	20°C
System	20°C
Results Value	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: Errera; Physikalische Zeitschrift; vol. 27; p. 766; Chemisches Zentralblatt; vol. 98; nb. I; (1927); p. 1928.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926426

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	8.258 - 10.963
Temperature	5-75°C
System	5-75°C
Results Value	Not Reported
Results Details	Static Dielectric Constant

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: Flaherty; Stern; Journal of the American Chemical Society; vol. 80; (1958); p. 1034,1036.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..			
OECD Harmonized Template:	Dielectric Constant			
HERO ID:	5926426			
EXTRACTION				
Parameter	Data			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Dielectric Constant	9.43 -			
Temperature	20°C			
System	20°C			
Results Value	Not Reported			
Results Details	Static Dielectric Constant			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: Musset et al.; vol. 8; (1956); p. 8,10.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926426

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	9.93 -
Temperature	Not Reported
System	Not Reported
Results Value	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Wang, Maw-Ling; Chen, Chau-Je; Organic Process Research and Development; vol. 12; nb. 4; (2008); p. 748-754. Kocsis, Laura S.; et al.; Journal of Organic Chemistry; vol. 80; nb. 23; (2015); p.11686-11698.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926426

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	3.03 -
Temperature	-40°C
System	-40°C
Results Value	Not Reported
Results Details	Not Reported

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination	High
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* Related References: Errera; Physikalische Zeitschrift; vol. 27; p. 766; Chemisches Zentralblatt; vol. 98; nb. I; (1927); p. 1928.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..			
OECD Harmonized Template:	Dielectric Constant			
HERO ID:	5926426			
EXTRACTION				
Parameter	Data			
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; NR; NR			
Dielectric Constant	11.13 -			
Temperature	0°C			
System	0°C			
Results Value	Not Reported			
Results Details	Not Reported			
EVALUATION				
Domain	Metric	Rating	Comments	
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data’s inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quality Determination		High		

* Related References: Smyth; Morgan; Boyce; Journal of the American Chemical Society; vol. 50; (1928); p. 1544.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,2-dichlorobenzene. CAS RN: 95-50-1..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926426

EXTRACTION	
Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	9.93 -
Temperature	25°C
System	25°C
Results Value	Not Reported
Results Details	Static Dielectric Constant

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5:	Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Dreisbach,R. R.; Physical Properties of Chemical Compounds (=Advances in Chemistry Series Nr. 15) <Washington 1955> S. 135; Todd, William P.; et al.; Journal of the American Chemical Society; vol. 113; nb. 9; (1991); p. 3601-3602.

Study Citation:	HSDB, (2014). 1,2-Dichlorobenzene (CASRN: 95-50-1).
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5348445

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; None
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Dielectric Constant	12.12
Temperature	293.2 K
System	Not reported
Results Value	Not Reported
Results Details	Reported as 12.12 at 293.2 K

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a secondary database with a references to the peer-reviewed original source.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Lide, D.R. CRC Handbook of Chemistry and Physics 86TH Edition 2005-2006. CRC Press, Taylor & Francis, Boca Raton, FL 2005, p. 6-140

Study Citation:	Krishnamurti, R. (2001). Chlorinated benzenes.
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5177139

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	9.93
Temperature	Not Reported
System	Not reported
Results Value	Not Reported
Results Details	Not reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	Data is from a data collection that is prepared and reviewed by experts in the field.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

Study Citation:	Rumble, J. R. (2018). Permittivity (dielectric constant) of liquids.
OECD Harmonized Template:	Dielectric Constant
HERO ID:	6655445

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Dielectric Constant	10.12
Temperature	20 C
System	Not Reported
Results Value	Not Reported
Results Details	Not Reported

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2: Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	NTP, (1985). Toxicology and Carcinogenesis Studies of 1,2-Dichlorobenzene (o-Dichlorobenzene) (CAS No. 95-50-1) in F344/N Rats and B6C3F1 Mice (Gavage Studies). 255:1-195.
OECD Harmonized Template:	UV and Visible Absorption
HERO ID:	1944492

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; NA
Confidentiality, Type, and Guideline	No; Experimental; UV spectral data
Solvent, Reactivity, Storage, and Stability	Petroleum ether and/or isooctane; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Wave Length Range	242.9 - 277.5
Light Source, Optical Path Length, and Optical Cell Type	Cary 118; NR; NR
Test Concentration and Reference Substance	0.03 - % (w/v) ; NR
Solvent and Solvent pH	Petroleum ether and/or isooctane; NR
Blank Control, Maxima, Lambda Max, and Peak Band Width	NR; 6; 270.2; 242.9-277.5 nm
Measured Absolute Value and Molar Coefficient	NR; $\epsilon = 47.4 \pm 0.4$ to 357.1 ± 1.6 units not reported
Results Details	No absorbance between 350 and 800 nm at a concentration of 0.03% (w/v). Literature Values (from Sadtler Standard Spectra) max wavelengths of 276, 269, 262, 255 and 248 (shoulder) nm

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4: Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5: Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

Study Citation:	Scharping, H., Zetzsch, C. (1985). Substituent effects in the VUV absorption-spectra of monochlorobenzene and ortho-dichlorobenzene, meta-dichlorobenzene, and para-dichlorobenzene. Journal of Molecular Spectroscopy 112(1):8-17.
OECD Harmonized Template:	UV and Visible Absorption
HERO ID:	4913592

EXTRACTION	
Parameter	Data
CASRN and Test Material	NR; NA
Confidentiality, Type, and Guideline	No; Experimental; Measurement and comparison of Gas phase VUV absorption cross sections
Solvent, Reactivity, Storage, and Stability	NA; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Fluka; NR; Impurities <1%
Wave Length Range	>160 nm - NR
Light Source, Optical Path Length, and Optical Cell Type	Deuterium lamp (Heraeus Hanau, D 200F) and monochromator (Minuteman, 302 MV) is a 0.2-m focal length Seya Namioka instrument equipped with a holographic grating (type III, Jobin Yvon) with 1200 lines/mm; Not Reported; 2 absorption cells with different light paths (10 cm stainless steel, LiF windows and 100 cm glass, fused quartz lenses, f = 50 mm)
Test Concentration and Reference Substance	Not Reported; Not Reported
Solvent and Solvent pH	Argon gas carrier; NA
Blank Control, Maxima, Lambda Max, and Peak Band Width	Not Reported; Not Reported; Not Reported; Not Reported
Measured Absolute Value and Molar Coefficient	Not Reported; Not Reported
Results Details	Bathochromic Shifts (cm-1) of the UV Bands compared to benzene: $\tilde{A}$: 1859, B; 3730 and $\tilde{C}$: 3350, UV absorption cross sections shown in figures.

EVALUATION				
Domain	Metric		Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	N/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliability	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.
Domain 3: Other	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

Study Citation:	Harner, T., MacKay, D. (1995). Measurement of octanol-air partition coefficients for chlorobenzenes, PCBs, and DDT. Environmental Science & Technology 29(6):1599-1606.
OECD Harmonized Template:	Other Properties
HERO ID:	1990700

EXTRACTION

Parameter	Data
CASRN and Test Material	95-50-1; 1,2-Dichlorobenzene
Confidentiality, Type, and Guideline	None; Experimental; Non-guideline generator column with GC analysis
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Results Value	log koa = 4.36 (measured) at 25°C
Results Details	log koa = 4.4 (calculated from kow/kaw)
Results Remarks	log Koa was reciprocal to absolute temperature; 30°C drop in temperature increases Koa by factor of 30

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2: Appropriateness	High	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliability	Metric 3: Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
	Metric 4: Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other	Metric 5: Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use OR includes references to the original sources.
	Metric 6: Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination**High**

List of Abbreviations and Acronyms for Data Quality Evaluation and Extraction Tables

Term	Definition
ASTM	American Society for Testing and Materials
ATSDR	Agency for Toxic Substances and Disease Registry
atm	Atmospheres
atm · m ³ /mol	Atmospheres - cubic meters per mole
C	Celsius
CASRN	Chemical Abstract Service registry number
cP	Centipoise
CRC	CRC Handbook of Chemistry and Physics
DOE	U.S. Department of Energy
ECB	European Chemicals Bureau
EPA	Environmental Protection Agency
F	Fahrenheit
GC	Gas Chromatography
g/cm ³	Grams per cubic centimeter
GLP	Good Laboratory Practice
HLC	Henry's Law Constant
HPV	High Production Volume
HSDB	Hazard Substance Data Bank
ILO	International Labour Organization
IPCS	International Programme on Chemical Safety
IUCLID	International Uniform Chemical Information Database
K	Kelvin
K _{oa}	Octanol-Air partition coefficient
K _{ow}	Octanol-Water partition coefficient
mg/L	Milligrams per Liter
mol	Mole
mmHg	Millimeters of Mercury
MS	Mass Spectrometry
N/A	Not Applicable
NICNAS	National Industrial Chemicals Notification and Assessment Scheme
NLM	National Library of Medicine
NR	Not Reported
OECD	Organisation for Economic Co-operation and Development
Pa (hPa)	Pascals (hectopascals; 1 hPa = 100 Pa)
pH	Negative base 10 Log of Hydrogen Ion (H ⁺) Concentration in Aqueous Solution
pK _a	Negative base 10 Log of Acid Dissociation Constant (K _a)
RIVM	National Institute for Public Health and the Environment (Dutch: Rijksinstituut voor Volksgezondheid en Milieu)

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Term	Definition
RSC	Royal Society of Chemistry
RT	Retention Time
SIDs	Screening Information Dataset
VP	Vapor Pressure
US or USA	United States of America
UV (UV-Vis)	Ultra Violet (UV-Visible)
WHO	World Health Organization