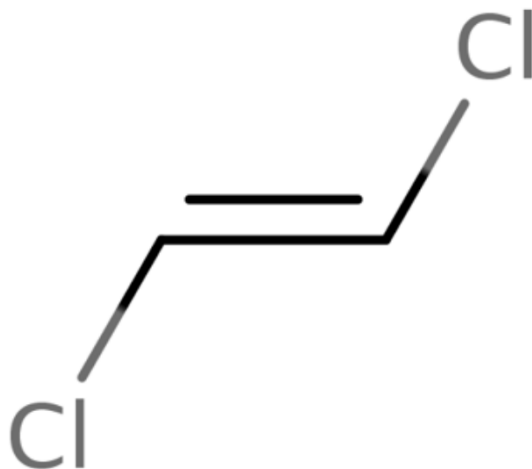

**Draft Data Quality Evaluation and Data Extraction Information for
Physical and Chemical Properties for
trans-1,2-Dichloroethylene**

Systematic Review Support Document for the Draft Risk Evaluation

CASRN: 156-60-5



July 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 trans-1,2-Dichloroethylene* 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 trans-1,2-Dichloroethylene*. 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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4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	11
5348040	Lewis, R. J., Sr (2012). Trans-acetylene dichloride 156-60-5. :45.	12
192177	NIOSH, (2007). NIOSH pocket guide to chemical hazards.	13
7681902	NLM, (2020). Hazardous agents: trans-1,2-dichloroethylene.	14
1740607	U.S. EPA, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans-156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).	15
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5926382	O'Neil, M. J. (2013). trans-1,2-Dichloroethene. :17.	17
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5349307	Rumble, J. R. (2018). Trans-1,2-dichloroethene. :3-18.	20
5926112	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.	21
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5926417	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..	27
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5348036	Mertens, J. A. (2000). Dichloroethylene.	29
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5349307	Rumble, J. R. (2018). Trans-1,2-dichloroethene. :3-18.	36
1740607	U.S. EPA, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans-156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).	37

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5926417	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..	47
5438706	Hutter, J. C., Vandergrift, G. F., Nuñez, L., Redfield, D. H. (1994). Removal of VOCs from groundwater using membrane-assisted solvent extraction. AIChE Journal 40(1):166-177.	48
5348040	Lewis, R. J., Sr (2012). Trans-acetylene dichloride 156-60-5. :45.	49
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5349307	Rumble, J. R. (2018). Trans-1,2-dichloroethene. :3-18.	61
6655446	Rumble, J. R. (2018). Flammability of chemical substances. :16-16 - 16-32.	62
1740607	U.S. EPA, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans-156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).	63
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3572470	Comelli, F., Francesconi, R. (1995). Densities and excess molar volumes of binary-mixtures containing propylene carbonate plus 10 chlorohydrocarbons at 298.15 k and atmospheric-pressure. Journal of Chemical and Engineering Data 40(6):1184-1187.	81

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5433588	Machát, V., Boublík, T. (1985). Vapour-liquid equilibrium and excess molar volume of (trans-1,2-dichloroethene + cyclopentane) at 293.15 K. Journal of Chemical Thermodynamics 17(9):887-891.	98
5348036	Mertens, J. A. (2000). Dichloroethylene.	99
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5433626	Koprouch, N., Dahmke, A., Köber, R. (2019). The aqueous solubility of common organic groundwater contaminants as a function of temperature between 5 and 70°C. Chemosphere 217:166-175.	134
654554	Mueller, M., Klein, W. (1992). Comparative evaluation of methods predicting water solubility for organic compounds. Chemosphere 25(6):769-782.	137
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5348036	Mertens, J. A. (2000). Dichloroethylene.	155
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5349307	Rumble, J. R. (2018). Trans-1,2-dichloroethene. :3-18.	191
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10225177	NIST, (2022). NIST Chemistry WebBook. Ethylene, 1,2-dichloro-, (E)- (156-60-5). Standard Reference Database No. 69.	194
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5159900	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.	197
5932745	Rumble, J. R. (2018). Aqueous solubility and Henry's law constants of organic compounds. :5-148 - 5-177.	202
1740607	U.S. EPA, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans-156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).	203

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5926417	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..	206
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Study Citation:	Belpoggi, F., Chiozzotto, D., Lauriola, M. (2012). Unsaturated halogenated hydrocarbons. :129-229.
OECD Harmonized Template:	Physical Form or State
HERO ID:	4332198

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-dichloroethylene
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; liquid; NR
Results Value	Colorless liquid with a sweetish 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	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:	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	156-60-5; 1,2-Dichloroethene
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:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Physical Form or State
HERO ID:	4293766

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; Not reported
Confidentiality, Type, and Guideline	None; Experimental; No guideline
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 Notes: Not reported
Results Value	Colorless, light liquid with a sweetish 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	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 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 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:	Lewis, R. J., Sr (2012). Trans-acetylene dichloride 156-60-5. :45.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5348040

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-ACETYLENE DICHLORIDE
Confidentiality, Type, and Guideline	None; Experimental; NR
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; Liquid; NR Notes: NR
Results Value	Liquid
Results Details	Colorless liquid; 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	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	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:	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	540-59-0; 1,2-Dichloroethylene
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 liquid; slightly acrid; chloroform-like odor
Results Details	usually a mixture of the cis & trans isomers

EVALUATION

Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1: Representativeness	Medium	Data are measured or estimated for the subject chemical substance in a mixture of isomers.
	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**

Study Citation:	NLM, (2020). Hazardous agents: trans-1,2-dichloroethylene.
OECD Harmonized Template:	Physical Form or State
HERO ID:	7681902

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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	colorless with pleasant odor; clear light yellow

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	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: CAMEO and Sigma-Aldrich MSDS

Study Citation:	U.S. EPA, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans- 156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).
OECD Harmonized Template:	Physical Form or State
HERO ID:	1740607

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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	Ethereal, slightly acrid, sweet, pleasant
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 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 NLM (National Library of Medicine) (2006); ATSDR (Agency for Toxic Substances and Disease Registry) (1996) HERO ID 723873.

Study Citation:	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926112

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: Dreher, E.L. et al. 2014. Chloroethanes and Chloroethylenes. Ullmann's Encyclopedia of Industrial Chemistry. New York, NY: John Wiley & Sons.

Study Citation:	O'Neil, M. J. (2013). trans-1,2-Dichloroethene. :17.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926382

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Results Value	liquid
Results Details	Data is for the trans-form; cis-form is also a liquid

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**

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926258

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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	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**High**

* Related References: Oxford University Chemical Safety Data

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926258

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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). Trans-1,2-dichloroethene. :3-18.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5349307

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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**

Study Citation:	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926112

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Results Details	colorless, light liquid, sweetish scent

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: Dreher, E.L. et al. 2014. Chloroethanes and Chloroethylenes. Ullmann's Encyclopedia of Industrial Chemistry. New York, NY: John Wiley & Sons

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926258

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Results Details	colorless, usually mixture of cis and trans, slightly acrid, chloroform-like 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**

* Related References: NIOSH

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.
OECD Harmonized Template:	Physical Form or State
HERO ID:	5926258

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Results Details	colorless

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	Data is from a publicly available secondary source with references to non-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: Oxford University Chemical Safety Data

Study Citation:	Belpoggi, F., Chiozzotto, D., Lauriola, M. (2012). Unsaturated halogenated hydrocarbons. :129-229.			
OECD Harmonized Template:	Melting Point			
HERO ID:	4332198			
EXTRACTION				
Parameter	Data			
Melting Point	- -49.4 °C			
CASRN and Test Material	156-60-5; trans-1,2-dichloroethylene			
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; liquid; 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 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 and 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		

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	-49.8 - °C
CASRN and Test Material	156-60-5; 1,2-dichloroethene
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:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Melting Point
HERO ID:	4293766

EXTRACTION

Parameter	Data
Melting Point	-49.44 °C
CASRN and Test Material	156-60-5; Not Reported
Confidentiality, Type, and Guideline	None; 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 Notes: 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.
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:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Melting Point
HERO ID:	5926417

EXTRACTION	
Parameter	Data
Melting Point	-50 - -49.44 °C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Results Details Methods	Measured conditions were not reported; 3 values were reported in Reaxys; 3 of these values were reported in the range of -50 to -49.44°C; 0 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:	Lewis, R. J., Sr (2012). Trans-acetylene dichloride 156-60-5. :45.			
OECD Harmonized Template:	Melting Point			
HERO ID:	5348040			
EXTRACTION				
Parameter	Data			
Melting Point	NA NA - NA -50 °(units not reported in entry but available in introduction)			
CASRN and Test Material	156-60-5; trans-ACETYLENE DICHLORIDE			
Confidentiality, Type, and Guideline	None; Experimental; NR			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; Liquid; NR Notes: NA			
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	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	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:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Melting Point
HERO ID:	5348036

EXTRACTION

Parameter	Data
Melting Point	-49.44 - °C
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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	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: Primary citation not reported.

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.			
OECD Harmonized Template:	Melting Point			
HERO ID:	192177			
EXTRACTION				
Parameter	Data			
Melting Point	-115 - -57 F			
CASRN and Test Material	540-59-0; 1,2-Dichloroethylene			
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	Medium	Data are measured or estimated for the subject chemical substance; possibly as a mixture of isomers.
	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		Medium		

Study Citation:	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Melting Point
HERO ID:	5926112

EXTRACTION

Parameter	Data
Melting Point	-49.8 °C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: Haynes, W.M. (Ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-162.

Study Citation:	O'Neil, M. J. (2013). trans-1,2-Dichloroethene. :17.
OECD Harmonized Template:	Melting Point
HERO ID:	5926382

EXTRACTION	
Parameter	Data
Melting Point	-49.4 °C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Results Details Methods	Data is for the trans-form; melting point for the cis-form is -81.5°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 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**

* 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. 17.

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.
OECD Harmonized Template:	Melting Point
HERO ID:	5926258

EXTRACTION	
Parameter	Data
Melting Point	-50 °C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Melting Point	-80 °C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Melting Point	-57 °C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	Rumble, J. R. (2018). Trans-1,2-dichloroethene. :3-18.
OECD Harmonized Template:	Melting Point
HERO ID:	5349307

EXTRACTION	
Parameter	Data
Melting Point	-49.8 °C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans- 156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).
OECD Harmonized Template:	Melting Point
HERO ID:	1740607

EXTRACTION	
Parameter	Data
Melting Point	-49.8 °C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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
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	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 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 NLM (National Library of Medicine) (2006); ATSDR (Agency for Toxic Substances and Disease Registry) (1996) HERO ID 723873.

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.
OECD Harmonized Template:	Melting Point
HERO ID:	5926144

EXTRACTION	
Parameter	Data
Melting Point	-64.9 °C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.
OECD Harmonized Template:	Melting Point
HERO ID:	5926144

EXTRACTION	
Parameter	Data
Melting Point	-65.6 °C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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
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* Related References: NIOSH

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
Melting Point	-50 °C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
Melting Point	-80 °C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: Oxford University Chemical Safety Data

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
Melting Point	-50 °C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	Melting Point			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
Melting Point	-50 °C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	Belpoggi, F., Chiozzotto, D., Lauriola, M. (2012). Unsaturated halogenated hydrocarbons. :129-229.
OECD Harmonized Template:	Boiling Point
HERO ID:	4332198

EXTRACTION	
Parameter	Data
Boiling Point	48.0 - 48.5 C
CASRN and Test Material	156-60-5; trans-1,2-dichloroethylene
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; liquid; NR Notes: 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 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 and 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

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	48.7 - C
CASRN and Test Material	156-60-5; 1,2-dichloroethene
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:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Boiling Point
HERO ID:	4293766

EXTRACTION	
Parameter	Data
Boiling Point	48.5 C
CASRN and Test Material	156-60-5; Not Reported
Confidentiality, Type, and Guideline	None; 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 Notes: Not reported
Standard Deviation Results	Not reported
Results Details	Boiling point at 101.325 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.
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
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Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Boiling Point
HERO ID:	5926417

EXTRACTION	
Parameter	Data
Boiling Point	47 - 49 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Standard Deviation Results	Not Reported
Results Details	@ 760 torr; 23 values were reported in Reaxys; 6 of these values were reported in the range of 47 to 49 C at 760 torr; 17 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
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* Related References: Data range determined from multiple primary sources in REAXYS.

Study Citation:	Hutter, J. C., Vandergrift, G. F., Nuñez, L., Redfield, D. H. (1994). Removal of VOCs from groundwater using membrane-assisted solvent extraction. AICHE Journal 40(1):166-177.
OECD Harmonized Template:	Boiling Point
HERO ID:	5438706

EXTRACTION	
Parameter	Data
Boiling Point	= 47 C
CASRN and Test Material	not reported; trans-1,2-dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical; NR; analytical reagent-quality Notes: 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 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	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:	Lewis, R. J., Sr (2012). Trans-acetylene dichloride 156-60-5. :45.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5348040			
EXTRACTION				
Parameter	Data			
Boiling Point	NA NA - NA 48 °C (units not reported in entry but available in introduction))			
CASRN and Test Material	156-60-5; trans-ACETYLENE DICHLORIDE			
Confidentiality, Type, and Guideline	None; Experimental; NR			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; Liquid; NR Notes: NR			
Standard Deviation Results	NR			
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)	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		

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Boiling Point
HERO ID:	5348036

EXTRACTION	
Parameter	Data
Boiling Point	47.7 - C
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
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: Primary citation not reported.

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	192177			
EXTRACTION				
Parameter	Data			
Boiling Point	118 - 140 F			
CASRN and Test Material	540-59-0; 1,2-Dichloroethylene			
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	Medium	Data are measured or estimated for the subject chemical substance; possibly as a mixture of isomers.
	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		Medium		

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Ethylene, 1,2-dichloro-, (E)- (156-60-5). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225177

EXTRACTION

Parameter	Data
Boiling Point	320.7 - K
CASRN and Test Material	156-60-5; Ethylene, 1,2-dichloro-, (E)-
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	47.55°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.
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: Cites: 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; not available at time of extraction.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Ethylene, 1,2-dichloro-, (E)- (156-60-5). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225177

Parameter		EXTRACTION		
Boiling Point		322.7 - K		
CASRN and Test Material		156-60-5; Ethylene, 1,2-dichloro-, (E)-		
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		49.55°C		

Domain		Metric		EVALUATION		Comments
				Rating		
Domain 1: Substance		Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.	Measured data are consistent with the subject chemical substance structural features.
		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 unknown and there is no indication that a reliable method was used.
		Metric 4:	Reliability/Analytical Method	Low		
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		

Overall Quality Determination	High
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* Related References: Cites: Awbery and Griffiths, 1936 HERO ID 8430535; not available at time of extraction.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Ethylene, 1,2-dichloro-, (E)- (156-60-5). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225177

EXTRACTION	
Parameter	Data
Boiling Point	320.5 - K
CASRN and Test Material	156-60-5; Ethylene, 1,2-dichloro-, (E)-
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	47.35°C

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	Low
Domain 3: Other	Metric 5:	Databases	High
	Metric 6:	Models	N/A

Overall Quality Determination **High**

* Related References: Cites: Amaya, K., Thermodynamical studies on binary systems consisting of polar and non-polar liquids. II. the measurement of the heats of mixing for binary systems of polar and non-polar liquids, Bull. Chem. Soc. Jpn., 1961, 34, 1278.; not available at time of extraction.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Ethylene, 1,2-dichloro-, (E)- (156-60-5). Standard Reference Database No. 69.
OECD Harmonized Template:	Boiling Point
HERO ID:	10225177

EXTRACTION	
Parameter	Data
Boiling Point	321.4 - K
CASRN and Test Material	156-60-5; Ethylene, 1,2-dichloro-, (E)-
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	48.25°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.
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: Cites 2 sources: Andrews, L.J.; Keefer, R.M., The Argentation of Organic Iodides, J. Am. Chem. Soc., 1951, 73, 5733-5736. AND Newitt, D.M.; Weale, K.E., Pressure-volume-temperature relations in liquids and liquid mixtures: II the compression isotherms of some organic liquids up to 1000 atmospheres, and the compressions of some aqueous and nonaqueous, J. Chem. Soc., 1951, 1951, 3092-8.; not available at time of extraction.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Ethylene, 1,2-dichloro-, (E)- (156-60-5). Standard Reference Database No. 69.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	10225177			
EXTRACTION				
Parameter	Data			
Boiling Point	320.45 - K			
CASRN and Test Material	156-60-5; Ethylene, 1,2-dichloro-, (E)-			
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	47.3°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.
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: Cites: Kovac, Svoboda, et al., 1985 HERO ID 5439991; not available at time of extraction.

Study Citation:	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Boiling Point
HERO ID:	5926112

EXTRACTION

Parameter	Data
Boiling Point	47.64 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: Haynes, W.M. (Ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-162.

Study Citation:	O'Neil, M. J. (2013). trans-1,2-Dichloroethene. :17.
OECD Harmonized Template:	Boiling Point
HERO ID:	5926382

EXTRACTION

Parameter	Data
Boiling Point	47.2 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Standard Deviation Results	Not Reported
Results Details	@ 745 torr; data is for the trans-form; boiling point for the cis-form is 59.6 C @ 745 torr and 60 C at 760 torr

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**

* 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. 17.

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.
OECD Harmonized Template:	Boiling Point
HERO ID:	5926258

EXTRACTION

Parameter	Data
Boiling Point	47.7778 - 60 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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 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:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Boiling Point	47 - 49 C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	Rumble, J. R. (2018). Trans-1,2-dichloroethene. :3-18.
OECD Harmonized Template:	Boiling Point
HERO ID:	5349307

EXTRACTION	
Parameter	Data
Boiling Point	47.64 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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
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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	47.64
CASRN and Test Material	Not Reported; trans-1,2-Dichloroethene
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, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans- 156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).
OECD Harmonized Template:	Boiling Point
HERO ID:	1740607

EXTRACTION	
Parameter	Data
Boiling Point	48.7 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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 Notes: NR
Standard Deviation Results	NR
Results Details	at 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'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	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 NLM (National Library of Medicine) (2006); ATSDR (Agency for Toxic Substances and Disease Registry) (1996) HERO ID 723873.

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.
OECD Harmonized Template:	Boiling Point
HERO ID:	5926144

EXTRACTION

Parameter	Data
Boiling Point	54.4 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
Boiling Point	48 C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: Oxford University Chemical Safety Data

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
Boiling Point	60 C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: Oxford University Chemical Safety Data

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.
OECD Harmonized Template:	Boiling Point
HERO ID:	5926144

Parameter	Data
Boiling Point	53.9 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Standard Deviation Results	Not Reported
Results Details	Not Reported

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
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* Related References: NIOSH

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
Boiling Point	48 C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	Boiling Point			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
Boiling Point	48 C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	Belpoggi, F., Chiozzotto, D., Lauriola, M. (2012). Unsaturated halogenated hydrocarbons. :129-229.
OECD Harmonized Template:	Density
HERO ID:	4332198

EXTRACTION	
Parameter	Data
Density	3.4 - g/cm3
CASRN and Test Material	156-60-5; trans-1,2-dichloroethylene
Confidentiality, Type, and Guideline	None; experimental; not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; liquid; NR
Density Type	vapor density
System	None
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 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 and 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

Study Citation:	Belpoggi, F., Chiozzotto, D., Lauriola, M. (2012). Unsaturated halogenated hydrocarbons. :129-229.
OECD Harmonized Template:	Density
HERO ID:	4332198

EXTRACTION	
Parameter	Data
Density	1.257 - g/cm3
CASRN and Test Material	156-60-5; trans-1,2-dichloroethylene
Confidentiality, Type, and Guideline	None; experimental; not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; liquid; NR Notes: NR
Density Type	density
System	None
Temperature	Not Reported
Standard Deviation Results	Not Reported
Results Details	specific gravity

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 and 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

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	1.2565 -
CASRN and Test Material	156-60-5; 1,2-dichloroethene
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:	Dow Chemical, (2004). [Redacted] Density versus temperature for chlorinated solvents.
OECD Harmonized Template:	Density
HERO ID:	10610555

EXTRACTION	
Parameter	Data
Density	1.24291 - 1.251513 g/cm3
CASRN and Test Material	1,2-DCE; trans-1,2-dichloroethylene
Confidentiality, Type, and Guideline	redacted; experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; 99.9% or greater
Density Type	density
System	Electronic Densitometer
Temperature	20°C; 25°C
Standard Deviation Results	not reported
Results Details	1.251513 g/cm3 @ 20°C; 1.24291 g/cm3 @ 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	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	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: 1,2-DCE

Study Citation:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Density
HERO ID:	4293766

EXTRACTION	
Parameter	Data
Density	1.260 g/cm3
CASRN and Test Material	156-60-5; Not Reported
Confidentiality, Type, and Guideline	None; 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 Notes: Not reported
Density Type	Density
System	Not reported
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	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:	Lewis, R. J., Sr (2012). Trans-acetylene dichloride 156-60-5. :45.			
OECD Harmonized Template:	Density			
HERO ID:	5348040			
EXTRACTION				
Parameter	Data			
Density	NA NA - NA 1.2743 NR			
CASRN and Test Material	156-60-5; trans-ACETYLENE DICHLORIDE			
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	Vapor density = 3.34			
System	NR			
Temperature	25°/4° (units not reported but assumed to be °C from introduction)			
Standard Deviation Results	NR			
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	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		

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Density
HERO ID:	5348036

EXTRACTION	
Parameter	Data
Density	1446.20 - g/L
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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	density
System	Not reported
Temperature	20 deg C
Standard Deviation Results	Not Reported
Results Details	Reported as 1.44620 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	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	Medium
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* Related References: Primary citation not reported.

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Density
HERO ID:	5348036

EXTRACTION	
Parameter	Data
Density	1263.1 - g/L
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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	density
System	Not reported
Temperature	NR
Standard Deviation Results	Not Reported
Results Details	Reported as 1.2631 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	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	Medium
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* Related References: Primary citation not reported.

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.			
OECD Harmonized Template:	Density			
HERO ID:	5348036			
EXTRACTION				
Parameter	Data			
Density	1449.03 - g/L			
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene			
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	density			
System	Not reported			
Temperature	15 deg C			
Standard Deviation Results	Not Reported			
Results Details	Reported as 1.44903 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	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		Medium		

* Related References: Primary citation not reported.

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.		
OECD Harmonized Template:	Density		
HERO ID:	192177		
EXTRACTION			
Parameter	Data		
Density	1.27 - Not reported		
CASRN and Test Material	540-59-0; 1,2-Dichloroethylene		
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	77°F		
Standard Deviation Results	NR		
Results Details	Not Reported		
EVALUATION			
Domain	Metric	Rating	Comments
Domain 1: Substance	Metric 1:	Representativeness	Medium Data are measured or estimated for the subject chemical substance; possibly as part of a mixture of isomers.
	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:	U.S. EPA, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans- 156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).
OECD Harmonized Template:	Density
HERO ID:	1740607

EXTRACTION	
Parameter	Data
Density	1.2565
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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
Density Type	specific gravity
System	Not reported
Temperature	20°C/4°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	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 secondary source with references to 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 NLM (National Library of Medicine) (2006); ATSDR (Agency for Toxic Substances and Disease Registry) (1996) HERO ID 723873.

Study Citation:	Comelli, F., Francesconi, R. (1995). Densities and excess molar volumes of binary-mixtures containing propylene carbonate plus 10 chlorohydrocarbons at 298.15 k and atmospheric-pressure. Journal of Chemical and Engineering Data 40(6):1184-1187.
OECD Harmonized Template:	Density
HERO ID:	3572470

EXTRACTION

Parameter	Data
Density	1.25053 g/cm ³
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; stored in dark bottles over molecular sieves; NR
Radiolabel, Source, State, and Purity	NR; Aldrich; Liquid; 98 mol% Notes: purified by fractional distillation over 10% aqueous sodium hydroxide solution using Widmar 30-plate column
Temperature	298.15 K
Standard Deviation Results	Estimated uncertainty 1E-5 g/cm ³
Results Details	Anton Paar DMA 60/602 (Graz, Austria) digital vibrating tube density meter.

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 trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Density
HERO ID:	5926417

EXTRACTION

Parameter	Data
Density	1.22768 - 1.265 g/cm3
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	15-25°C
Standard Deviation Results	Not Reported
Results Details	15-25°C; 20 values were reported in Reaxys;

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, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Density
HERO ID:	5926112

EXTRACTION	
Parameter	Data
Density	1.2565 g/cm3
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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 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
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* Related References: Haynes, W.M. (Ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-162.

Study Citation:	O'Neil, M. J. (2013). trans-1,2-Dichloroethene. :17.
OECD Harmonized Template:	Density
HERO ID:	5926382

EXTRACTION

Parameter	Data
Density	1.2565 g/cm3
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	20°C
Standard Deviation Results	Not Reported
Results Details	at 20°C relative to water at 4°C; data is for the trans-form: the density of the cis-form is 1.2837 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:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Density			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Density	1.257 g/cm3			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Density			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Density	1.252 g/cm3			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	Rumble, J. R. (2018). Trans-1,2-dichloroethene. :3-18.
OECD Harmonized Template:	Density
HERO ID:	5349307

EXTRACTION

Parameter	Data
Density	1.2565 g/cm3
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	20°C
Standard Deviation Results	Not Reported
Results Details	20°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:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.
OECD Harmonized Template:	Density
HERO ID:	6629394

EXTRACTION	
Parameter	Data
Density	3.34
CASRN and Test Material	156-60-5; trans-1,2-DCE
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

Study Citation:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.
OECD Harmonized Template:	Density
HERO ID:	6629394

EXTRACTION	
Parameter	Data
Density	3.34
CASRN and Test Material	156-60-5; trans-1,2-DCE
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 (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: ILO International Chemical Safety Cards (ICSC)

Study Citation:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.
OECD Harmonized Template:	Density
HERO ID:	6629394

EXTRACTION	
Parameter	Data
Density	3.34
CASRN and Test Material	156-60-5; trans-1,2-DCE
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, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Density
HERO ID:	5926112

EXTRACTION

Parameter	Data
Density	3.67 g/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
System	Not reported
Temperature	Not Reported
Standard Deviation Results	Not Reported
Results Details	At boiling point at 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'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: Flick, E.W. (Ed.). Industrial Solvents Handbook 4th ed. Noyes Data Corporation, Park Ridge, NJ. 1991. 143.

Study Citation:	Belpoggi, F., Chiozzotto, D., Lauriola, M. (2012). Unsaturated halogenated hydrocarbons. :129-229.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	4332198			
EXTRACTION				
Parameter	Data			
Vapor Pressure	35.3 - kPa			
CASRN and Test Material	156-60-5; trans-1,2-dichloroethylene			
Confidentiality, Type, and Guideline	None; experimental; not specified			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	NR; NR; liquid; NR Notes: NR			
Temperature	20°C			
System	not specified			
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 and 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		

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	750 - mm Hg
CASRN and Test Material	156-60-5; 1,2-Dichloroethene
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	47.3°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:	Dow Chemical, (1989). [Redacted] Vapor pressure of XXX cis and trans 1,2-dichloroethylene and vapor-liquid equilibrium in the 1,1-dichloroethylene/trans 1,2-dichloroethylene system at ~600, 700 and 800 mmHg.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	10610755

EXTRACTION

Parameter	Data
Vapor Pressure	299.775 mm Hg
CASRN and Test Material	Not Reported; trans-1,2-dichloroethylene
Confidentiality, Type, and Guideline	no (some information is redacted); experimental; twin ebulliometer
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Aldrich Chemical Co.; NR; 98%
Temperature	22.883°C
System	ebulliometric technique
Standard Deviation Results	0.461 mm Hg; 0.063°C
Results Details	all results: 81.433 mm Hg @ -5.329°C; 101.060 mm Hg @ -0.929°C; 151.015 mm Hg @ 7.171°C; 200.369 mm Hg @ 13.324°C; 299.775 mm Hg @ 22.883°C; 499.096 mm Hg @ 35.956°C; 598.332 mm Hg @ 40.959°C; 698.279 mm Hg @ 45.361°C; 798.232 mm Hg @ 49.300°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	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:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	4293766

EXTRACTION	
Parameter	Data
Vapor Pressure	35.3 kPa
CASRN and Test Material	156-60-5; Not Reported
Confidentiality, Type, and Guideline	None; 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 Notes: Not reported
Temperature	20°C
System	Not reported
Standard Deviation Results	Not Reported
Results Details	5.3 kPa at -20°C; 8.5 kPa at -10°C; 15.1 kPa at 0°C; 24.7 kPa at 10°C; 54.7 kPa at 30°C; 76.7 kPa at 40°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.
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	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:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5926417

EXTRACTION

Parameter	Data
Vapor Pressure	328.459 mm Hg
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	25°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	9 data points were reported; 1 value was reported at 328.459 torr at standard temperature; 8 data points were outside the range, measured at non-standard or unreported 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: Putze, I.; Garriga, R.; Perez, P.; Gracia, M.; Journal of Chemical Thermodynamics; vol. 27; nb. 11; (1995); p. 1153 - 1160

Study Citation:	Lewis, R. J., Sr (2012). Trans-acetylene dichloride 156-60-5. :45.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5348040

EXTRACTION	
Parameter	Data
Vapor Pressure	NA NR - NR 400 mm
CASRN and Test Material	156-60-5; trans-ACETYLENE DICHLORIDE
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
Temperature	30.8°C (units not reported in entry but available in the introduction)
System	NR
Standard Deviation Results	NR
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)	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

Study Citation:	Machát, V., Boublík, T. (1985). Vapour-liquid equilibrium and excess molar volume of (trans-1,2-dichloroethene + cyclopentane) at 293.15 K. Journal of Chemical Thermodynamics 17(9):887-891.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5433588

EXTRACTION

Parameter	Data
Vapor Pressure	13.944 - 98.149 kPa
CASRN and Test Material	Not Reported; trans-1,2-Dichloroethene
Confidentiality, Type, and Guideline	none; experimental; none
Solvent, Reactivity, Storage, and Stability	Not Reported; Not Reported; Not Reported; Not Reported
Radiolabel, Source, State, and Purity	Not Reported; Fluka AG, pur.; Not Reported; GCL analysis indicated less than 0.1 mole per cent of the cis isomer as major impurity Notes: treated with concentrated H ₂ SO ₄ , NaHCO ₃ (aq), and water, and dried with molecular sieve
Temperature	272.470 to 319.871 K
System	Swietoslawski ebulliometers (one filled with water, one filled with the measured compound) connected to a pressure-controlling assembly
Standard Deviation Results	0.002
Results Details	Pressure calculated at 298.15K = 43.96 (0.02); based on coefficients of the Antoine equation: A = 6.04732, B = 1112.36, C = -45.586.

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)	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.
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:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5348036

EXTRACTION	
Parameter	Data
Vapor Pressure	24.7 - kPa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
Temperature	10 deg 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.
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
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* Related References: Primary citation not reported.

Study Citation: Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Vapor Pressure
Template:
HERO ID: 5348036

EXTRACTION

Parameter	Data
Vapor Pressure	76.7 - kPa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
Temperature	40 deg 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.
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: Primary citation not reported.

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5348036

EXTRACTION	
Parameter	Data
Vapor Pressure	15.1 - kPa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
Temperature	0 deg 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.
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
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* Related References: Primary citation not reported.

Study Citation: Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template: Vapor Pressure
HERO ID: 5348036

EXTRACTION

Parameter	Data
Vapor Pressure	101 - kPa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
Temperature	47.7 deg 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.
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: Primary citation not reported.

Study Citation: Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Vapor Pressure
Template:
HERO ID: 5348036

EXTRACTION

Parameter	Data
Vapor Pressure	5.3 - kPa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
Temperature	-20 deg 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.
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: Primary citation not reported.

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5348036

EXTRACTION	
Parameter	Data
Vapor Pressure	54.7 - kPa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
Temperature	30 deg 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.
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
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* Related References: Primary citation not reported.

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5348036

EXTRACTION	
Parameter	Data
Vapor Pressure	8.5 - kPa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
Temperature	-10 deg 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.
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
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* Related References: Primary citation not reported.

Study Citation: Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Vapor Pressure
Template:
HERO ID: 5348036

EXTRACTION

Parameter	Data
Vapor Pressure	35.3 - kPa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
Temperature	20 deg 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.
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: Primary citation not reported.

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	192177			
EXTRACTION				
Parameter	Data			
Vapor Pressure	180 - 265 mm Hg			
CASRN and Test Material	540-59-0; 1,2-Dichloroethylene			
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	Medium	Data are measured for the subject chemical substance; possibly a mixture of isomers.
	Metric 2:	Appropriateness	Medium	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		Medium		

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Ethylene, 1,2-dichloro-, (E)- (156-60-5). Standard Reference Database No. 69.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	10225177

EXTRACTION	
Parameter	Data
Vapor Pressure	Not Reported
CASRN and Test Material	156-60-5; Ethylene, 1,2-dichloro-, (E)-
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	234.96 - 357.99K
System	Coefficients calculated by NIST from author's data
Standard Deviation Results	not specified
Results Details	Antoine Equation Parameters [$\log_{10}(P) = A - (B / (T + C))$]: P=pressure in bar, T= temperature in K, A=3.93643, B=1064.346, C=-50.344

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: Cites: Ketelaar, J.A.A.; van Velden, P.F.; Zalm, P., Vapour Pressures and Heats of Vaporization of cis- and trans-1,2-Dichloroethene, Recl. Trav. Chim. Pays-Bas, 1947, 66, 12, 721-732, <https://doi.org/10.1002/recl.19470661202>; not available at time of extraction.

Study Citation:	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5926112

EXTRACTION	
Parameter	Data
Vapor Pressure	331 mm Hg
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: Boublik, T. Fried, V., Hala, E. 1984. The Vapour Pressures of Pure Substances. Second Revised Edition.

Study Citation:	O'Neil, M. J. (2013). trans-1,2-Dichloroethene. :17.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5926382

EXTRACTION	
Parameter	Data
Vapor Pressure	265 mm Hg
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	20°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	data is for the trans-form; the vapor pressure for the cis-form is 180 mm Hg at 20°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)	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. 17.

Study Citation: O'Neil, M. J. (2013). trans-1,2-Dichloroethene. :17.
OECD Harmonized Vapor Pressure
Template:
HERO ID: 5926382

EXTRACTION	
Parameter	Data
Vapor Pressure	410 mm Hg
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	30°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	data is for the trans-form; the vapor pressure for the cis-form is 250 mm Hg 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	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. 17.

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Vapor Pressure	44403 - Pa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
Confidentiality, Type, and Guideline	None; Extrapolated; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25 deg C
System	NR
Standard Deviation Results	NR
Results Details	Extrapolated by the Antoine equation.

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
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* Related References: Primary Source: Stephenson and Malanowski 1987

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Vapor Pressure	42177 - Pa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
Confidentiality, Type, and Guideline	None; Extrapolated; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25 deg C
System	NR
Standard Deviation Results	NR
Results Details	Extrapolated by the Antoine equation.

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: Primary Source: Stull 1947 HERO ID 41570

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Vapor Pressure	36743 - Pa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
Confidentiality, Type, and Guideline	None; Extrapolated; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR
Temperature	25 deg C
System	NR
Standard Deviation Results	NR
Results Details	Extrapolated by the Antoine equation.

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: Primary Source: Weast 1972 - 1973

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Vapor Pressure	43470 - Pa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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 deg 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.
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
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* Related References: Primary Source: Hardy 1964

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Vapor Pressure	34650 - Pa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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 deg 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.
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: Primary Source: Neely 1976 18866

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Vapor Pressure	43456 - Pa
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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 deg 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.
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: Primary Source: Dilling 1977 HERO ID 18370

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	5926258

EXTRACTION	
Parameter	Data
Vapor Pressure	180 - 265 mm Hg
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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
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* Related References: NIOSH

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Vapor Pressure			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Vapor Pressure	267 mm Hg			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR			
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’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). Flammability of chemical substances. :16-16 - 16-32.
OECD Harmonized Template:	Vapor Pressure
HERO ID:	6655446

EXTRACTION	
Parameter	Data
Vapor Pressure	= 44.2 kPa
CASRN and Test Material	Not Reported; trans-1,2-Dichloroethene
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, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans- 156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).
OECD Harmonized Template:	Vapor Pressure
HERO ID:	1740607

EXTRACTION	
Parameter	Data
Vapor Pressure	3.31×10 ² mm Hg
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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 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 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	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: Citing NLM (National Library of Medicine) (2006); ATSDR (Agency for Toxic Substances and Disease Registry) (1996) HERO ID 723873.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	logKow
HERO ID:	5926417

EXTRACTION	
Parameter	Data
log k_{ow}	2.09
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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 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: Hewitt, Alan D.; Environmental Science and Technology; vol. 32; nb. 1; (1998); p. 143 - 149

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}	1.51			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Calculation; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Not Reported; 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, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	logKow
HERO ID:	5926112

EXTRACTION	
Parameter	Data
log k_{ow}	2.09
CASRN and Test Material	156-60-5; trans-1,2-dichloroethylene
Confidentiality, Type, and Guideline	none; experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; liquid; 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	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 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, C., Leo, A., Hoekman, D. 1995. Exploring QSAR - Hydrophobic, Electronic, and Steric Constants. Washington, DC: American Chemical Society. P. 4.

Study Citation:	O'Neil, M. J. (2013). trans-1,2-Dichloroethene. :17.
OECD Harmonized Template:	logKow
HERO ID:	5926382

EXTRACTION	
Parameter	Data
log k_{ow}	2.09
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	Not Reported
System	Not Reported
pH	Not Reported
Results Details Method	data is for the trans-form; the cis form has a log Kow of 1.86
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

* 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. 17.

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	logKow
HERO ID:	5159900

EXTRACTION	
Parameter	Data
log k_{ow}	2.09 -
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
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.
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: Primary Source: Chan and Hansch

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.			
OECD Harmonized Template:	logKow			
HERO ID:	5159900			
EXTRACTION				
Parameter	Data			
log k _{ow}	2.06 -			
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene			
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			
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.
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: Primary Source: Hansch and Leo 1985 HERO ID 9837

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}	1.93
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	U.S. EPA, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans- 156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).
OECD Harmonized Template:	logKow
HERO ID:	1740607

EXTRACTION	
Parameter	Data
log k_{ow}	2.06
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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'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	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 NLM (National Library of Medicine) (2006); ATSDR (Agency for Toxic Substances and Disease Registry) (1996) HERO ID 723873.

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	logKow			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
log <i>k_{ow}</i>	1.86			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	Belpoggi, F., Chiozzotto, D., Lauriola, M. (2012). Unsaturated halogenated hydrocarbons. :129-229.
OECD Harmonized Template:	Water Solubility
HERO ID:	4332198

EXTRACTION	
Parameter	Data
Water Solubility	6300 - mg/L
CASRN and Test Material	156-60-5; trans-1,2-dichloroethylene
Confidentiality, Type, and Guideline	None; experimental; not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; liquid; NR Notes: NR
Temperature	not specified
System	not specified
pH	not specified
Results Details Method	not specified
Standard Deviation Results	not specified
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 and 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

Study Citation:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Water Solubility
HERO ID:	4293766

EXTRACTION	
Parameter	Data
Water Solubility	6300 mg/L
CASRN and Test Material	156-60-5; Not Reported
Confidentiality, Type, and Guideline	None; 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 Notes: Not reported
Temperature	25°C
System	Not reported
pH	Not reported
Results Details Method	Not reported
Standard Deviation Results	Not reported
Results Details	Reported as 0.63 wt%

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)	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	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:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Water Solubility
HERO ID:	5926417

EXTRACTION	
Parameter	Data
Water Solubility	6300 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	25°C
System	Not Reported
pH	Not reported
Results Details Method	Reported as 0.63 g in 100 g H ₂ O at 25 C
Standard Deviation Results	Not Reported
Results Details	1 data point was reported in Reaxys

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
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* Related References: McGovern; Industrial and Engineering Chemistry; vol. 35; (1943); p. 1234

Study Citation:	Koproch, N., Dahmke, A., Köber, R. (2019). The aqueous solubility of common organic groundwater contaminants as a function of temperature between 5 and 70°C. Chemosphere 217:166-175.
OECD Harmonized Template:	Water Solubility
HERO ID:	5433626

EXTRACTION	
Parameter	Data
Water Solubility	4838 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Sigma-Aldrich; Liquid; 95%
Temperature	10°C
System	Stirred flask experiments were carried out in a heating cabinet and a refrigerator
pH	Not reported
Results Details Method	Gas chromatography with a mECD and FID detector (Hewlett Packard, 6890 series; column; AT-Q, 30 m x 0.53 mm ID (Alltech)
Standard Deviation Results	Not reported
Results Details	Regression coefficient for determination is 0.89

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 with results compared to other literature values.
	Metric 4:	Reliability/Analytical Method	High	Sufficient details on method provided.
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:	Koprock, N., Dahmke, A., Köber, R. (2019). The aqueous solubility of common organic groundwater contaminants as a function of temperature between 5 and 70°C. Chemosphere 217:166-175.
OECD Harmonized Template:	Water Solubility
HERO ID:	5433626

EXTRACTION	
Parameter	Data
Water Solubility	4250 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Sigma-Aldrich; Liquid; 95%
Temperature	40°C
System	Stirred flask experiments were carried out in a heating cabinet and a refrigerator
pH	Not reported
Results Details Method	Gas chromatography with a mECD and FID detector (Hewlett Packard, 6890 series; column; AT-Q, 30 m x 0.53 mm ID (Alltech)
Standard Deviation Results	Not reported
Results Details	Regression coefficient for determination is 0.89

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.
	Metric 2:	Appropriateness	High	
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	Sufficient details on method provided.
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	

Overall Quality Determination	High
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Study Citation:	Koprock, N., Dahmke, A., Köber, R. (2019). The aqueous solubility of common organic groundwater contaminants as a function of temperature between 5 and 70°C. Chemosphere 217:166-175.
OECD Harmonized Template:	Water Solubility
HERO ID:	5433626

EXTRACTION	
Parameter	Data
Water Solubility	4365 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; Sigma-Aldrich; Liquid; 95%
Temperature	70°C
System	Stirred flask experiments were carried out in a heating cabinet and a refrigerator
pH	Not reported
Results Details Method	Gas chromatography with a mECD and FID detector (Hewlett Packard, 6890 series; column; AT-Q, 30 m x 0.53 mm ID (Alltech)
Standard Deviation Results	Not reported
Results Details	Regression coefficient for determination is 0.89

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.
	Metric 2:	Appropriateness	High	
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	Sufficient details on method provided.
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	

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	6301 mg/L			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Calculation; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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 6.5E-2 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	0.4 - g/100 ml			
CASRN and Test Material	540-59-0; 1,2-Dichloroethylene			
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	Medium	Data are measured or estimated for the subject chemical substance; possibly a mixture of isomers.
	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		Medium		

Study Citation:	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Water Solubility
HERO ID:	5926112

EXTRACTION	
Parameter	Data
Water Solubility	4520 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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
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* Related References: Horvath, A.L. et al. 1999. J Phy Chem Ref Data 28: 395-627

Study Citation:	O'Neil, M. J. (2013). trans-1,2-Dichloroethene. :17.
OECD Harmonized Template:	Water Solubility
HERO ID:	5926382

EXTRACTION	
Parameter	Data
Water Solubility	6300 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	25°C
System	Not Reported
pH	Not reported
Results Details Method	Data is for the trans-form; the water solubility of the cis-form is 3500 mg/L 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

* 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. 17.

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Water Solubility
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Water Solubility	6300 - mg/L
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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	25 deg 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.
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: Primary Source: Dean 1985 HERO ID 46951

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.			
OECD Harmonized Template:	Water Solubility			
HERO ID:	5159900			
EXTRACTION				
Parameter	Data			
Water Solubility	6259 - mg/L			
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene			
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	25 deg 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.
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: Primary Source: Seidell 1940

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Water Solubility
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Water Solubility	6300 - mg/L
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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	25 deg 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.
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: Primary Source: McGovern 1943 HERO ID 2800010

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.
OECD Harmonized Template:	Water Solubility
HERO ID:	5926258

EXTRACTION	
Parameter	Data
Water Solubility	4000 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	Not Reported
System	Not Reported
pH	Not reported
Results Details Method	Not Reported
Standard Deviation Results	Not Reported
Results Details	Originally reported as 0.4%, assumed weight percent.

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	5298 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	10°C
System	Not Reported
pH	Not reported
Results Details Method	Originally reported as 5.3 g/kg H2O, converted using CRC handbook's reported water density at 10 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	4500 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	25°C
System	Not Reported
pH	Not reported
Results Details Method	Originally reported as 4.5 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	4100 mg/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	40°C
System	Not Reported
pH	Not reported
Results Details Method	Originally reported as 4.1 g/kg H2O, converted using CRC handbook's reported water density at 40 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, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans- 156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).
OECD Harmonized Template:	Water Solubility
HERO ID:	1740607

EXTRACTION	
Parameter	Data
Water Solubility	4.52 g/L
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	no; not specified; Not reported
Solvent, Reactivity, Storage, and Stability	water; NR; NR; NR
Radiolabel, Source, State, and Purity	NR; NR; NR; NR Notes: NR
Temperature	25°C
System	NR
pH	NR
Results Details Method	NR
Standard Deviation Results	NR
Results Details	Miscible with alcohol, ether, acetone, benzene, and chloroform

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 and 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 NLM (National Library of Medicine) (2006); ATSDR (Agency for Toxic Substances and Disease Registry) (1996) HERO ID 723873.

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.			
OECD Harmonized Template:	Water Solubility			
HERO ID:	5926144			
EXTRACTION				
Parameter	Data			
Water Solubility	4690 mg/L			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR			
Temperature	Not Reported			
System	Not Reported			
pH	Not reported			
Results Details Method	Not Reported			
Standard Deviation Results	Not Reported			
Results Details	Originally reported as 0.0484 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	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. Horvath, al. et al. 1999

Study Citation:	Wright, D. A., Sandler, S. I., Devoll, D. (1992). Infinite dilution activity coefficients and solubilities of halogenated hydrocarbons in water at ambient temperatures. Environmental Science & Technology 26(9):1828-1831.
OECD Harmonized Template:	Water Solubility
HERO ID:	658886

EXTRACTION	
Parameter	Data
Water Solubility	4481 - 4535 mg/L
CASRN and Test Material	156-60-5; 1,2-trans-dichloroethylene
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	20°C
System	Static cell apparatus was designed to specifically to measure the equilibrium vapor pressure of dilute, gravimetrically prepared binary mixtures at constant temperature.
pH	Not reported
Results Details Method	MKS Baratron 221 AD differential pressure transducer. The result was then plugged into two mathematical equations to give the water solubility range
Standard Deviation Results	Not reported
Results Details	Result reported as 0.0833-0.0843 mol%. MW of trans-1,2-dichloroethylene is 96.94 g/mol; MW of water is 18.02 g/mol; assume density of water is 1 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	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) and 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 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

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Study Citation:	Wright, D. A., Sandler, S. I., Devoll, D. (1992). Infinite dilution activity coefficients and solubilities of halogenated hydrocarbons in water at ambient temperatures. Environmental Science & Technology 26(9):1828-1831.
OECD Harmonized Template:	Water Solubility
HERO ID:	658886

		EVALUATION	
Domain	Metric	Rating	Comments

Study Citation:	Belpoggi, F., Chiozzotto, D., Lauriola, M. (2012). Unsaturated halogenated hydrocarbons. :129-229.
OECD Harmonized Template:	Flash Point
HERO ID:	4332198

EXTRACTION

Parameter	Data
Flash Point	6 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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	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:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Flash Point
HERO ID:	4293766

EXTRACTION	
Parameter	Data
Flash Point	4 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	Lewis, R. J., Sr (2012). Trans-acetylene dichloride 156-60-5. :45.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5348040			
EXTRACTION				
Parameter	Data			
Flash Point	36 F			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
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	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		Medium		

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Flash Point
HERO ID:	5348036

EXTRACTION				
Parameter		Data		
Flash Point		4 - C		
CASRN and Test Material		156-60-5; Trans 1,2-dichloroethylene		
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		
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	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	Medium
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* Related References: Primary citation not reported.

Study Citation:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.
OECD Harmonized Template:	Flash Point
HERO ID:	6629394

EXTRACTION	
Parameter	Data
Flash Point	39 - F
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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 indicated, mixture of cis and trans isomers

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:<https://cameochemicals.noaa.gov/chemical/8520>

Study Citation:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	6629394			
EXTRACTION				
Parameter	Data			
Flash Point	43 - F			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
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	None specified, trans isomer			
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:<https://cameochemicals.noaa.gov/chemical/17858>

Study Citation:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.
OECD Harmonized Template:	Flash Point
HERO ID:	6629394

EXTRACTION	
Parameter	Data
Flash Point	6.0 - C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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	42.8°F, closed cup

		EVALUATION		Comments
Domain	Metric	Rating		
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 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; Safety Data Sheet for trans-1,2-Dichloroethylene. Product Number: D62209, Version 4.9 (Revision Date 03/21/2018). Available from, as of May 24, 2018: <http://www.sigmaaldrich.com/safety-center.html>

Study Citation:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	6629394			
EXTRACTION				
Parameter	Data			
Flash Point	36 - F			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
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	2°C, 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: National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-40

Study Citation:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	6629394			
EXTRACTION				
Parameter	Data			
Flash Point	2 - C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
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=0436

Study Citation:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	6629394			
EXTRACTION				
Parameter	Data			
Flash Point	36 - 39 F			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; not specified; Mixture of cis and trans isomers			
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: <http://www.osha.gov/chemicaldata/chemResult.html?RecNo=394><https://www.cdc.gov/niosh/npg/npgd0195.html>

Study Citation:	NIOSH, (2007). NIOSH pocket guide to chemical hazards.			
OECD Harmonized Template:	Flash Point			
HERO ID:	192177			
EXTRACTION				
Parameter	Data			
Flash Point	36 - 39 F			
CASRN and Test Material	540-59-0; 1,2-Dichloroethylene			
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	Medium	Data are measured or estimated for the subject chemical substance; possibly a mixture of isomers.
	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		Medium		

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.
OECD Harmonized Template:	Flash Point
HERO ID:	5926258

EXTRACTION

Parameter	Data
Flash Point	2.2222 3.8889 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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 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:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Flash Point	4 6 C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: Oxford University Chemical Safety Data

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Flash Point	2 C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Flash Point	6 C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Flash Point			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Flash Point	6 C			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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: Sigma-Aldrich

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	2 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
System	Not reported
Standard Deviation Results	Not reported
Results Details	trans isomer

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:	U.S. EPA, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2; trans- 156-60-5; mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).
OECD Harmonized Template:	Flash Point
HERO ID:	1740607

EXTRACTION

Parameter	Data
Flash Point	2 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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 Notes: NR
System	NR
Standard Deviation Results	NR
Results Details	Highly flammable; combustion products include HCl and phosgene

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 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**Medium**

* Related References: Citing NLM (National Library of Medicine) (2006); ATSDR (Agency for Toxic Substances and Disease Registry) (1996) HERO ID 723873.

Study Citation:	Belpoggi, F., Chiozzotto, D., Lauriola, M. (2012). Unsaturated halogenated hydrocarbons. :129-229.
OECD Harmonized Template:	Autoflammability
HERO ID:	4332198

EXTRACTION	
Parameter	Data
Auto-flammability	460 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
System	Not reported
Standard Deviation Results	Not reported
Results Details	Isomers 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 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 and 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: World Health Organization (WHO), 1,2-Dichloroethylene (cis/trans Mixture): International Chemical Safety Cards, International Programme for Chemical Safety, International Labour Office, Geneva, 1999.

Study Citation:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Autoflammability
HERO ID:	4293766

EXTRACTION	
Parameter	Data
Auto-flammability	460 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not specified
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.
OECD Harmonized Template:	Autoflammability
HERO ID:	6629394

EXTRACTION	
Parameter	Data
Auto-flammability	860 F
CASRN and Test Material	156-60-5; trans-1,2-DCE
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: Reported by multiple primary sources: USCG, 1999; National Fire Protection Association, 2010; and Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials, 2004.

Study Citation:	NCBI, (2020). PubChem database: compound summary: trans-1,2-Dichloroethylene.			
OECD Harmonized Template:	Autoflammability			
HERO ID:	6629394			
EXTRACTION				
Parameter	Data			
Auto-flammability	860 F			
CASRN and Test Material	156-60-5; trans-1,2-DCE			
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: 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: trans-1,2-Dichloroethylene.			
OECD Harmonized Template:	Autoflammability			
HERO ID:	6629394			
EXTRACTION				
Parameter	Data			
Auto-flammability	460 C			
CASRN and Test Material	156-60-5; trans-1,2-DCE			
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: ILO International Chemical Safety Cards (ICSC)

Study Citation:	NIOSH, (1978). Occupational health guideline for 1,2-dichloroethylene.			
OECD Harmonized Template:	Autoflammability			
HERO ID:	6662616			
EXTRACTION				
Parameter	Data			
Auto-flammability	460 C			
CASRN and Test Material	156-60-5; trans-1,2-DCE			
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			
Results Value	860 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	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: <https://www.cdc.gov/niosh/docs/81-123/pdfs/0195.pdf?id=10.26616/NIOSH PUB81123Pg 2>

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	460 C
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; not specified; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Viscosity
HERO ID:	4293766

EXTRACTION	
Parameter	Data
Viscosity	0.404 x 10 ⁻³
CASRN and Test Material	156-60-5; Not Reported
Confidentiality, Type, and Guideline	None; 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 Notes: Not reported
Temperature	20°C
Test Conditions	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	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:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Viscosity
HERO ID:	5926417

EXTRACTION

Parameter	Data
Viscosity	0.3901 - 0.57
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	20-25°C
Test Conditions	Not Reported
Standard Deviation Results	Not Reported
Results Details	At 20-25°C; 6 values were reported in Reaxys; 4 values were reported in the range of 0.39 to 0.57 cP at 20-25°C; 2 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:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Viscosity
HERO ID:	5348036

EXTRACTION				
Parameter	Data			
Viscosity	0.682 -			
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene			
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			
Temperature	-25 deg C			
Test Conditions	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	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	Medium
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* Related References: Primary citation not reported.

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.			
OECD Harmonized Template:	Viscosity			
HERO ID:	5348036			

Parameter		EXTRACTION		
Viscosity		0.404 -		
CASRN and Test Material		156-60-5; Trans 1,2-dichloroethylene		
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		
Temperature		20 deg C		
Test Conditions		Not reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		

Domain		Metric		EVALUATION	
				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	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	Medium
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* Related References: Primary citation not reported.

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Viscosity
HERO ID:	5348036

Parameter		EXTRACTION		
Viscosity		1.005 -		
CASRN and Test Material		156-60-5; Trans 1,2-dichloroethylene		
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		
Temperature		-50 deg C		
Test Conditions		Not reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		

Domain		Metric		EVALUATION		Comments
				Rating		
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	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	Medium
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* Related References: Primary citation not reported.

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Viscosity
HERO ID:	5348036

Parameter		EXTRACTION		
Viscosity		0.498 -		
CASRN and Test Material		156-60-5; Trans 1,2-dichloroethylene		
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		
Temperature		0 deg C		
Test Conditions		Not reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		

Domain		Metric		EVALUATION		Comments
				Rating		
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	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	Medium
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* Related References: Primary citation not reported.

Study Citation:	Mertens, J. A. (2000). Dichloroethylene.
OECD Harmonized Template:	Viscosity
HERO ID:	5348036

Parameter		EXTRACTION		
Viscosity		0.447 -		
CASRN and Test Material		156-60-5; Trans 1,2-dichloroethylene		
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		
Temperature		10 deg C		
Test Conditions		Not reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		

Domain		Metric		EVALUATION		Comments
				Rating		
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	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	Medium
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* Related References: Primary citation not reported.

Study Citation:	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Viscosity
HERO ID:	5926112

EXTRACTION	
Parameter	Data
Viscosity	0.41
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	20°C
Test Conditions	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 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: Flick, E.W. (Ed.). Industrial Solvents Handbook 4th ed. Noyes Data Corporation, Park Ridge, NJ. 1991. 143.

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

EXTRACTION	
Parameter	Data
Viscosity	0.317
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	25°C
Test Conditions	Not Reported
Standard Deviation Results	Not Reported
Results Details	0.522 cP at -25°C; 0.398 cP at 0°C; 0.261 cP at 50°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:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.			
OECD Harmonized Template:	Refractive Index			
HERO ID:	4293766			
EXTRACTION				
Parameter	Data			
Refractive Index	1.4462			
CASRN and Test Material	156-60-5; Not Reported			
Confidentiality, Type, and Guideline	None; Experimental; None			
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 Notes: Not reported			
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	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:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Refractive Index
HERO ID:	5926417

EXTRACTION

Parameter	Data
Refractive Index	1.4399 - 1.4514
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	20-25°C
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	20-25°C; 19 values were reported in Reaxys; 15 values were reported in the range of 1.4399 to 1.4514 at 20-25°C; 4 values were measured at 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:	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Refractive Index
HERO ID:	5926112

EXTRACTION	
Parameter	Data
Refractive Index	1.4454
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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 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: Haynes, W.M. (Ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 3-162.

Study Citation:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Refractive Index			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Refractive Index	1.446			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	RSC, (2019). ChemSpider: (E)-1,2-Dichloroethene.			
OECD Harmonized Template:	Refractive Index			
HERO ID:	5926258			
EXTRACTION				
Parameter	Data			
Refractive Index	1.4455			
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene			
Confidentiality, Type, and Guideline	None; Experimental; Not reported			
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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:	Rumble, J. R. (2018). Trans-1,2-dichloroethene. :3-18.
OECD Harmonized Template:	Refractive Index
HERO ID:	5349307

EXTRACTION	
Parameter	Data
Refractive Index	1.4454
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; 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	42.3 - MPa
CASRN and Test Material	156-60-5; trans-1,2-dichloroethylene
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; >97 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 $\lim_{x \rightarrow 0} \frac{\text{solute fugacity}}{\text{solute mole fraction}}$ in the liquid solution. $K_{aw} = 317,000$, where $K_{aw} = \lim_{c \rightarrow 0} \frac{\text{solute concentration in air}}{\text{solute concentration in water}}$
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:	NIST, (2022). NIST Chemistry WebBook. Ethylene, 1,2-dichloro-, (E)- (156-60-5). Standard Reference Database No. 69.
OECD Harmonized Template:	Henry's Law
HERO ID:	10225177

EXTRACTION	
Parameter	Data
Henry's Law	0.070 - 0.19 mol/(kg*bar)
CASRN and Test Material	156-60-5; Ethylene, 1,2-dichloro-, (E)-
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	298.15 K
pH	not reported
System	Henry's law constant for solubility in water
Standard Deviation Results	not reported
Results Details	Multiple values reported without references: 0.099 (Original publication of a measured value.), 0.098, 0.097, 0.1 (Original publication of a measured value.), 0.15 (Vapor pressure of the pure substance is used to determine the Henry's law constant.), 0.085, 0.19, 0.07
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	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: Primary sources not specified in this secondary source.

Study Citation:	NIST, (2022). NIST Chemistry WebBook. Ethylene, 1,2-dichloro-, (E)- (156-60-5). Standard Reference Database No. 69.
OECD Harmonized Template:	Henry's Law
HERO ID:	10225177

EXTRACTION	
Parameter	Data
Henry's Law	0.11 - mol/(kg*bar)
CASRN and Test Material	156-60-5; Ethylene, 1,2-dichloro-, (E)-
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	298.15 K
pH	not reported
System	Henry's law constant for solubility in water
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 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: Cites: Gossett, 1987 HERO ID 732584; not available at time of extraction.

Study Citation:	NLM, (2018). PubChem: Hazardous Substance Data Bank: trans-1,2-Dichloroethylene, 156-60-5.
OECD Harmonized Template:	Henry's Law
HERO ID:	5926112

EXTRACTION	
Parameter	Data
Henry's Law	0.00928 atm-m ³ /mol
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	24°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: Gossett, J.M. 1987. Environ Sci Tech. 21: 202-6.

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Henry's Law
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Henry's Law	940.8 - Pa m ³ /mol
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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	20 deg C
pH	NR
System	NR
Standard Deviation Results	NR
Results Details	Not Reported
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	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: Primary Source: Ashworth 1986 HERO ID 5178812

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Henry's Law
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Henry's Law	800.3 - Pa m3/mol
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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	20 deg C
pH	NR
System	NR
Standard Deviation Results	NR
Results Details	Not Reported
Results Details Methods	NR

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	Low
Domain 3: Other	Metric 5:	Databases	High
	Metric 6:	Models	N/A

Overall Quality Determination

High

* Related References: Primary Source: Tse et al. 1992 HERO ID 658808

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Henry's Law
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Henry's Law	950.5 - Pa m3/mol
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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	20 deg C
pH	NR
System	NR
Standard Deviation Results	NR
Results Details	Not Reported
Results Details Methods	NR

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	Low
Domain 3: Other	Metric 5:	Databases	High
	Metric 6:	Models	N/A

Overall Quality Determination

High

* Related References: Primary Source: Lincoff and Gossett 1983

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Henry's Law
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Henry's Law	950 - Pa m3/mol
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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
pH	NR
System	NR
Standard Deviation Results	NR
Results Details	Not Reported
Results Details Methods	NR

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	Low
Domain 3: Other	Metric 5:	Databases	High
	Metric 6:	Models	N/A

Overall Quality Determination

High

* Related References: Primary Source: Gossett 1987 HERO ID 732584

Study Citation:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.
OECD Harmonized Template:	Henry's Law
HERO ID:	5159900

EXTRACTION	
Parameter	Data
Henry's Law	1195 - Pa m3/mol
CASRN and Test Material	156-60-5; Trans 1,2-dichloroethylene
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	30 deg C
pH	NR
System	NR
Standard Deviation Results	NR
Results Details	Not Reported
Results Details Methods	NR

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	Low
Domain 3: Other	Metric 5:	Databases	High
	Metric 6:	Models	N/A

Overall Quality Determination

High

* Related References: Primary Source: Tse et al. 1992 HERO ID 658808

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

EXTRACTION	
Parameter	Data
Henry's Law	9.869E-3 atm m3/mol
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	25°C
pH	Not Reported
System	Not Reported
Standard Deviation Results	Not Reported
Results Details	Reported as 1.00 kPa m3 mol-1 (converted using 1 kPa = 0.00986923 atm)
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 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, (2010). Toxicological review of cis-1,2-dichloroethylene and trans-1,2-dichloroethylene (CAS nos. cis: 156-592-2: trans- 156-60-5: mixture: 540-59-0). In support of summary information on the Integrated Risk Information System (IRIS).
OECD Harmonized Template:	Henry's Law
HERO ID:	1740607

EXTRACTION	
Parameter	Data
Henry's Law	9.28×10 ⁻³ atm-m ³ /mol
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
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 Notes: NR
Temperature	24.8°C
pH	NR
System	NR
Standard Deviation Results	NR
Results Details	Not Reported
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'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	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 NLM (National Library of Medicine) (2006); ATSDR (Agency for Toxic Substances and Disease Registry) (1996) HERO ID 723873.

Study Citation:	U.S. EPA, (2020). Comptox chemicals dashboard: (E)-1,2-Dichloroethylene.
OECD Harmonized Template:	Henry's Law
HERO ID:	5926144

EXTRACTION	
Parameter	Data
Henry's Law	0.00673 atm-m3/mol
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Temperature	Not reported
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

Study Citation:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Dielectric Constant
HERO ID:	4293766

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.15 -
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 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:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.27 -
Temperature	20°C
System	Not Reported
Results Value	Not Reported
Results Details	20°C

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 trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.16 -
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: Ewald et al.; Transactions of the Faraday Society; vol. 53; (1957); p. 991,993.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.18 -
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: Musset et al.; vol. 8; (1956); p. 8,10.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.15 -
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**

* Related References: Ketelaar et al.; Journal of Physical Chemistry; vol. 55; (1951); p. 987,1000.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.14 -
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**

* Related References: Ketelaar; van Velden; Zalm; Recueil des Travaux Chimiques des Pays-Bas; vol. 66; (1947); p. 724,725 Anm.; Wood; Dickinson; Journal of the American Chemical Society; vol. 61; (1939); p. 3259,3260.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.42 -
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
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* Related References: Olson; Maroney; Journal of the American Chemical Society; vol. 56; (1934); p. 1322.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.35 -
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: Olson; Maroney; Journal of the American Chemical Society; vol. 56; (1934); p. 1322.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.28 -
Temperature	21°C
System	21°C
Results Value	Not Reported
Results Details	400000Hz

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: Errera; Journal de Physique et le Radium; vol. 6,6; p. 392; Phys.Z.; vol. 27; p. 767, Errera; Lepingle; Bulletin de la Classe des Sciences, Academie Royale de Belgique; vol. 5,11; (1925); p. 153; Chemisches Zentralblatt; vol. 96; nb. II; (1925); p. 897.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	7.55 -
Temperature	16°C
System	16°C
Results Value	Not Reported
Results Details	6.66667E+07 Hz

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: Walden; Werner; Zeitschrift fur Physikalische Chemie, Stoechiometrie und Verwandtschaftslehre; vol. 111; (1924); p. 469.

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for trans-1,2-Dichloroethylene. CAS RN: 156-60-5..
OECD Harmonized Template:	Dielectric Constant
HERO ID:	5926417

EXTRACTION	
Parameter	Data
CASRN and Test Material	156-60-5; trans-1,2-Dichloroethylene
Confidentiality, Type, and Guideline	None; Experimental; Not Reported
Solvent, Reactivity, Storage, and Stability	NR; NR; NR; NR
Radiolabel, Source, State, and Purity	Not Reported; NR; Liquid; NR
Dielectric Constant	2.14 -
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: Abate, Lorenzo; Longo, Maria L.; Maccarone, Emanuele; Torre, Michele; Gazzetta Chimica Italiana; vol. 110; nb. 9/10; (1980); p. 527 - 532.

Study Citation:	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübke, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Other Properties
HERO ID:	4293766

EXTRACTION

Parameter	Data
CASRN and Test Material	156-60-5; Not Reported
Confidentiality, Type, and Guideline	None; 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 Notes: Not reported
Results Value	Heat of evaporation: 28.9 kJ/mol
Results Details	Not reported
Results Remarks	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**

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)

Continued on next page ...

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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