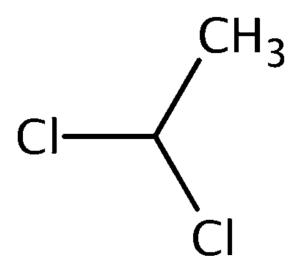


Risk Evaluation for 1,1-Dichloroethane

Systematic Review Supplemental File:

Data Quality Evaluation and Data Extraction Information for Physical and Chemical Properties

CASRN: 75-34-3



June 2025

This supplemental file contains information regarding the data extraction and evaluation results for data sources that were considered for the *Risk Evaluation for 1,1-Dichloroethane (1,1-DCA)* 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 *Risk Evaluation for 1,1-Dichloroethane (1,1-DCA) – Systematic Review Protocol*. 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. Within the contents of this document, 1,1-dichloroethane may be referred to as the acronyms 1,1-DCA and 1,1-DCE. The acronyms 1,2-DCA, 1,2-DCE, and DCE refer to the chemical 1,2-dichloroethane. The acronyms 1,1,2-TCE, 1,1,2-TCA, and TCE refer to the chemical 1,2-DCP refers to the chemical 1,2-dichloropropane.

HERO ID	Reference	Page
Physical Form or State		
7309759	Canada,, G.o. (2021). Fact sheet: 1,1-dichloroethane.	9
3981013	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.	10
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	11
192177	NIOSH, (2007). NIOSH pocket guide to chemical hazards.	12
8435203	NIOSH, (1978). Occupational health guideline for 1,1-dichloroethane.	13
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	14
5926374	O'Neil, M. J. (2013). Ethylidene chloride. 75-34-3. [1,1-Dichloroethane]. :705.	15
5331600	Rumble, J. R. (2018). 1,1-Dichloroethane. :3-16.	16
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	17
Melting Point		
5155632	California Office of Environmental Health Hazard Assessment (OEHHA) (2011). Appendix B: Chemical-specific summaries of the infor- mation used to derive unit risk and cancer potency values.	21
5155634	California Office of Environmental Health Hazard Assessment (OEHHA) (2003). Public health goals for chemicals in drinking water: 1,1-dichloroethane in drinking water.	22
7309759	Canada,, G.o. (2021). Fact sheet: 1,1-dichloroethane.	23
3981013	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.	24
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	25
5926414	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3	26
9087635	Li, M., J.C., Pitzer, K. S. (1956). The thermodynamic properties of 1,1-dichloroethane: Heat capacities from 14 to 294°K., heats of fusion and vaporization, vapor pressure and entropy of the ideal gas. The barrier to internal rotation. Journal of the American Chemical Society 78(6):1077-1080.	27
192177	NIOSH, (2007). NIOSH pocket guide to chemical hazards.	28
8435203	NIOSH, (1978). Occupational health guideline for 1,1-dichloroethane.	29
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	30
5926374	O'Neil, M. J. (2013). Ethylidene chloride. 75-34-3. [1,1-Dichloroethane]. :705.	31
5926256	RSC, (2019). ChemSpider: 1,1-Dichloroethane.	32
5331600	Rumble, J. R. (2018). 1,1-Dichloroethane. :3-16.	33
5926139	U.S. EPA, (2019). Chemistry Dashboard Information for 1,1-Dichloroethane. 75-34-3	34

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5155632	California Office of Environmental Health Hazard Assessment (OEHHA) (2011). Appendix B: Chemical-specific summaries of the infor- mation used to derive unit risk and cancer potency values.	38
5155634	California Office of Environmental Health Hazard Assessment (OEHHA) (2003). Public health goals for chemicals in drinking water: 1,1-dichloroethane in drinking water.	39
7309759	Canada,, G.o. (2021). Fact sheet: 1,1-dichloroethane.	40
3981013	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.	41
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	42
5926414	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3	43
192177	NIOSH, (2007). NIOSH pocket guide to chemical hazards.	44
8435203	NIOSH, (1978). Occupational health guideline for 1,1-dichloroethane.	45
10225173	NIST, (2022). NIST Chemistry WebBook. Ethane, 1,1-dichloro- (75-34-3). Standard Reference Database No. 69.	46
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	47
5926374	O'Neil, M. J. (2013). Ethylidene chloride. 75-34-3. [1,1-Dichloroethane]. :705.	48
5331600	Rumble, J. R. (2018). 1,1-Dichloroethane. :3-16.	49
6655446	Rumble, J. R. (2018). Flammability of chemical substances. :16-16 - 16-32.	50
5926139	U.S. EPA, (2019). Chemistry Dashboard Information for 1,1-Dichloroethane. 75-34-3	51
5434414	Varushchenko, R. M., Druzhinina, A. I., Kuramshina, G. M., Dorofeeva, O. V. (2007). Thermodynamics of vaporization-of some freons and halogenated ethanes and propanes. Fluid Phase Equilibria 256(1-2):112-122.	56
Density		
7309759	Canada,, G.o. (2021). Fact sheet: 1,1-dichloroethane.	57
3981013	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.	59
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	60
192177	NIOSH, (2007). NIOSH pocket guide to chemical hazards.	61
8435203	NIOSH, (1978). Occupational health guideline for 1,1-dichloroethane.	62
5926414	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3	64
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	65
5926374	O'Neil, M. J. (2013). Ethylidene chloride. 75-34-3. [1,1-Dichloroethane]. :705.	66
5926256	RSC, (2019). ChemSpider: 1,1-Dichloroethane.	68
5331600	Rumble, J. R. (2018). 1,1-Dichloroethane. :3-16.	70
6629204	NCBI, (2020). PubChem database: compound summary: 1,1-dichloroethane.	71

5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	74
Particle Size		
Vapor Pressure		
5155632	California Office of Environmental Health Hazard Assessment (OEHHA) (2011). Appendix B: Chemical-specific summaries of the infor- mation used to derive unit risk and cancer potency values.	75
5155634	California Office of Environmental Health Hazard Assessment (OEHHA) (2003). Public health goals for chemicals in drinking water: 1,1-dichloroethane in drinking water.	76
7309759	Canada,, G.o. (2021). Fact sheet: 1,1-dichloroethane.	77
3981013	DOE, (2016). Table 1: Chemicals of concern and associated chemical information. PACs.	78
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	79
5926414	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3	80
1937605	Garcia-Sanchez, F., Trejo, A. (1987). Vapor-pressure and critical constants of 1,1-dichloroethane. Journal of Chemical Thermodynamics 19(4):359-361.	81
9087635	Li, M., J.C., Pitzer, K. S. (1956). The thermodynamic properties of 1,1-dichloroethane: Heat capacities from 14 to 294°K., heats of fusion and vaporization, vapor pressure and entropy of the ideal gas. The barrier to internal rotation. Journal of the American Chemical Society 78(6):1077-1080.	82
10180525	NCBI, (2020). PubChem Compound Summary for CID 6365: 1,1-Dichloroethane.	84
192177	NIOSH, (2007). NIOSH pocket guide to chemical hazards.	85
8435203	NIOSH, (1978). Occupational health guideline for 1,1-dichloroethane.	86
10225173	NIST, (2022). NIST Chemistry WebBook. Ethane, 1,1-dichloro- (75-34-3). Standard Reference Database No. 69.	87
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	101
5159900	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.	102
5926256	RSC, (2019). ChemSpider: 1,1-Dichloroethane.	111
6655446	Rumble, J. R. (2018). Flammability of chemical substances. :16-16 - 16-32.	112
logKow		
5155634	California Office of Environmental Health Hazard Assessment (OEHHA) (2003). Public health goals for chemicals in drinking water: 1,1-dichloroethane in drinking water.	113
5926414	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3	114
654554	Mueller, M., Klein, W. (1992). Comparative evaluation of methods predicting water solubility for organic compounds. Chemosphere 25(6):769-782.	115
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	116
5159900	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.	117
5926139	U.S. EPA, (2019). Chemistry Dashboard Information for 1,1-Dichloroethane. 75-34-3	122
Water Solubility		

5155634	California Office of Environmental Health Hazard Assessment (OEHHA) (2003). Public health goals for chemicals in drinking water: 1,1-dichloroethane in drinking water.	123
7309759	Canada,, G.o. (2021). Fact sheet: 1,1-dichloroethane.	124
1739466	Chen, F.,ei, Freedman, D. L., Falta, R. W., Murdoch, L. C. (2012). Henry's law constants of chlorinated solvents at elevated temperatures. Chemosphere 86(2):156-165.	125
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	126
5926414	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3	127
654554	Mueller, M., Klein, W. (1992). Comparative evaluation of methods predicting water solubility for organic compounds. Chemosphere 25(6):769-782.	128
10180525	NCBI, (2020). PubChem Compound Summary for CID 6365: 1,1-Dichloroethane.	129
192177	NIOSH, (2007). NIOSH pocket guide to chemical hazards.	130
8435203	NIOSH, (1978). Occupational health guideline for 1,1-dichloroethane.	131
654558	Nirmalakhandan, N. N., Speece, R. E. (1988). Prediction of aqueous solubility of organic chemicals based on molecular structure. Environmental Science & Technology 22(3):328-338.	132
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	134
5926374	O'Neil, M. J. (2013). Ethylidene chloride. 75-34-3. [1,1-Dichloroethane]. :705.	135
5159900	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.	136
5926256	RSC, (2019). ChemSpider: 1,1-Dichloroethane.	145
5932745	Rumble, J. R. (2018). Aqueous solubility and Henry's law constants of organic compounds. :5-148 - 5-177.	146
5926139	U.S. EPA, (2019). Chemistry Dashboard Information for 1,1-Dichloroethane. 75-34-3	149
658886	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.	150
Flash Point		
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	152
192177	NIOSH, (2007). NIOSH pocket guide to chemical hazards.	153
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	154
5926256	RSC, (2019). ChemSpider: 1,1-Dichloroethane.	158
6655446	Rumble, J. R. (2018). Flammability of chemical substances. :16-16 - 16-32.	161
Autoflammability		
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	162
6629204	NCBI, (2020). PubChem database: compound summary: 1,1-dichloroethane.	163
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	165

6655446	Rumble, J. R. (2018). Flammability of chemical substances. :16-16 - 16-32.	166
рКа		
Viscosity		
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	167
5926414	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3	168
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	169
5932747	Rumble, J. R. (2018). Viscosity of liquids. :6-234 - 6-237.	170
Refractive Index		
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	171
5926414	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3	172
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	173
5926374	O'Neil, M. J. (2013). Ethylidene chloride. 75-34-3. [1,1-Dichloroethane]. :705.	174
5331600	Rumble, J. R. (2018). 1,1-Dichloroethane. :3-16.	175
Henry's Law		
5155634	California Office of Environmental Health Hazard Assessment (OEHHA) (2003). Public health goals for chemicals in drinking water: 1,1-dichloroethane in drinking water.	176
7309759	Canada,, G.o. (2021). Fact sheet: 1,1-dichloroethane.	177
1739466	Chen, F., ei, Freedman, D. L., Falta, R. W., Murdoch, L. C. (2012). Henry's law constants of chlorinated solvents at elevated temperatures. Chemosphere 86(2):156-165.	178
1937610	Gorgenyi, M., Dewulf, J., Langenhove, Van, H. (2002). Temperature dependence of Henry's law constant in an extended temperature range. Chemosphere 48(7):757-762.	179
5441348	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.	180
5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	182
5159900	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217.	183
5932745	Rumble, J. R. (2018). Aqueous solubility and Henry's law constants of organic compounds. :5-148 - 5-177.	186
5926139	U.S. EPA, (2019). Chemistry Dashboard Information for 1,1-Dichloroethane. 75-34-3	187
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Dielectric Constant		
5926414	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3	188

5926110	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3.	189
UV and Visible Absorption		
Other Properties		
4293766	Dreher, E. L., Beutel, K. K., Myers, J. D., Lübbe, T., Krieger, S., Pottenger, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.	190
Miscellaneous		
List of Abbreviations and Acronyms for	Data Quality Evaluation and Extraction Tables	191

Study Citation: OECD Harmonized	Canada,, G.o. (2 Physical Form of	2021). Fact sheet: 1,1-dichloroethane.		
Template:	T flystear Form o	5) State		
HERO ID:	7309759			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; liquid; NR Notes: denser than	water	
Results Value		liquid		
Results Details		20 C		
			EVALUATIO	N
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 Reliabil	lity			
	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 Quali	tv Determi	nation	High	

* Related References: Citing Agency for Toxic Substances and Disease Registry (ATSDR), 1990. Toxicological Profile for 1,1- Dichloroethane. U.S. Department of Health and Human Services, Public Health Service, Georgia, USA.

Study Citation: OECD Harmonized	DOE, (2016). T Physical Form of	Cable 1: Chemicals of concern and assoc or State	ciated chemical inf	ormation. PACs.
Template:	T flystear T offiti v	of State		
HERO ID:	3981013			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-dichloroethane		
Confidentiality, Type, and	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Results Value		liquid		
Results Details		not specified		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	tv Determi	nation	High	

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

Study Citation:		· · · · · · · · · · · · · · · · · · ·	eger, S., Pottenge	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
OECD Harmonized Template:	Physical Form	or State		
HERO ID:	4293766			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; Not reported		
Confidentiality, Type, and	Guideline	None; Experimental; No guideline		
Solvent, Reactivity, Storage	e, and Stability	Not reported; Not reported; Not reported;	Not reported	
Radiolabel, Source, State, a	and Purity	Not reported; Not reported; Liquid; Not r	eported Notes: No	ot reported
Results Value		Colorless liquid		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	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.

Study Citation: OECD Harmonized	NIOSH, (2007) Physical Form of	. NIOSH pocket guide to chemical hazar	rds.	
Template: HERO ID:	192177			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; Liquid; NR Notes: NR		
Results Value		Colorless; oily liquid; chloroform-like o	odor	
Results Details		Class IB Flammable Liquid		
			EVALUATIO	N
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 Reliabi	lity			
	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 Quali	ty Determi	nation	High	

Study Citation: OECD Harmonized	NIOSH, (1978) Physical Form	. Occupational health guideline for 1,1-d	ichloroethane.	
Template:	,			
HERO ID:	8435203			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; colorless liquid; NR Notes: chl	oroform like odor	
Results Value		colorless liquid		
Results Details		NR		
			EVALUATIO	N
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 Reliabil	lity			
	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 Qualit	tv Determi	nation	High	

* Related References: Several references listed in the reference but not attributed to specific data.

Study Citation: OECD Harmonized	NLM, (2018). H Physical Form of	PubChem: Hazardous Substance Data Ba or State	nk: 1,1-Dichloro	ethane, 75-34-3.
Template:				
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Value		liquid		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabi	lity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	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.

* Related References: NIOSH Pocket Guide to Chemical Hazards. Department of Health and Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) 2010 (2010)

Study Citation: OECD Harmonized	O'Neil, M. J. (2 Physical Form (2013). Ethylidene chloride. 75-34-3. [1,1 or State	l-Dichloroethane]	. :705.
Template: HERO ID:	5926374			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Value		oily liquid		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabili	ity			
	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 Qualit	ty Determi	nation	High	

Study Citation:	Rumble I R (2018). 1,1-Dichloroethane. :3-16.		
OECD Harmonized	Physical Form			
Template:	T flystear T offit (51 State		
HERO ID:	5331600			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	-	NR; NR; NR; NR		
Results Value		liquid		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	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 Qualit	ty Determi	nation	High	

Study Citation:	NLM, (2018). 1	PubChem: Hazardous Substance Data Ba	nk: 1.1-Dichloro	ethane, 75-34-3.
OECD Harmonized	Physical Form			
Template:	5			
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details		colorless, oily liquid		
			EVALUATIO	N
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 Reliabi	lity			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
	Matria 4.	(Method Objectivity)	NT/A	
	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 Quali	ty Dotormi	nation	High	

* Related References: NIOSH Pocket Guide to Chemical Hazards. Department of Health and Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) 2010 (2010)

Study Citation: OECD Harmonized	, (,		ank: 1,1-Dichloro	NLM, (2018). PubChem: Hazardous Substance Data Bank: 1,1-Dichloroethane, 75-34-3. Physical Form or State						
Template: HERO ID:	5926110									
			EXTRACTIO	N						
Parameter		Data								
CASRN and Test Material		75-34-3; 1,1-Dichloroethane								
Confidentiality, Type, and	Guideline	None; Experimental; Not reported								
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR								
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR								
Results Details		aromatic ethereal odor								
			EVALUATIO	N						
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 Reliabil	lity									
	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 Quali	ty Determi	nation	High							

* Related References: Larranaga, M.D., Lewis, R.J. Sr., Lewis, R.A.; Hawley's Condensed Chemical Dictionary 16th Edition. John Wiley & Sons, Inc. Hoboken, NJ 2016, p. 592

Study Citation: OECD Harmonized	NLM, (2018). H Physical Form of	PubChem: Hazardous Substance Data E or State	Bank: 1,1-Dichloro	ethane, 75-34-3.
Template: HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details		chloroform-like odor		
			EVALUATIO	N
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 Reliabil	lity			
	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 Quali	tv Determi	nation	High	

* Related References: NIOSH Pocket Guide to Chemical Hazards. Department of Health and Human Services, Centers for Disease Control & Prevention. National Institute for Occupational Safety & Health. DHHS (NIOSH) 2010 (2010)

Study Citation: OECD Harmonized	NLM, (2018). I Physical Form of	PubChem: Hazardous Substance Data E or State	Bank: 1,1-Dichloro	bethane, 75-34-3.
Template: HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; NR; NR		
Results Details		ether-like odor		
			EVALUATIO	N
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 Reliabil	lity			
	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 Quali	ty Determi	nation	High	

* Related References: NOAA, CAMEO Chemicals. Database of Hazardous Materials. 1,1-Dichloroethane (75-34-3). Natl Ocean Atmos Admin, Off Resp Rest; NOAA Ocean Serv

Study Citation:	California Office of Environmental Health Hazard Assessment (OEHHA) (2011). Appendix B: Chemical-specific summaries of the information used to derive unit risk and cancer potency values.					
OECD Harmonized	Melting Point	na cancer potency varaes.				
Template:						
HERO ID:	5155632					
		EXTRACTION				
Parameter		Data				
Melting Point		-96.7 °C				
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE				
Confidentiality, Type, and	Guideline	none; not specified; Not reported				
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; NR Notes: NR				
Results Details Methods	-	NR				
Standard Deviation Results	8	NR				
Results Details		NR				

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance	e			
	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 Relia	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qua	lity Determ	ination	High	

* Related References: Citing ATSDR 1990, HERO ID 644890.

Study Citation:	California Office of Environmental Health Hazard Assessment (OEHHA) (2003). Public health goals for chemicals in drinking water: 1,1-dichloroethane in drinking water.			
OECD Harmonized	Melting Point			
Template:				
HERO ID:	5155634			
			EXTRACTION	
Parameter		Data		
Malting Daint		-97 °C		
Melting Point CASRN and Test Material				
CASRN and Test Material Confidentiality, Type, and G	uidalina	75-34-3; 1,1-Dichloroethane None; calculation; NA		
Solvent, Reactivity, Storage,		None; calculation; NA NA; NA; NA; NA		
Radiolabel, Source, State, an		NA, NA, NA, NA NA; NA; NA; NA Notes: NA		
Results Details Methods	lu Fuilty	NA, NA, NA, NA NOLES. NA NA		
Standard Deviation Results		0.3		
Results Details		Reported values are mean and standard de	viation of the values fo	ound in a handbook
Results Details		Reported values are mean and standard de	viation of the values it	
			EVALUATION	
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 Reliabilit	V			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Citing Mackay, D; Shiu, WY; Ma, KC (1993) Illustrated handbook of physical-chemical properties and environmental fate for organic chemicals. Volume I.

Study Citation: OECD Harmonized	Canada,, G.o. (2 Melting Point	2021). Fact sheet: 1,1-dichloroethane.		
Template: HERO ID:	7309759			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-97 - °C		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Results Details Methods		NR		
Standard Deviation Results	8	NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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 Quali	tv Determi	nation	High	

* Related References: Citing Agency for Toxic Substances and Disease Registry (ATSDR), 1990. Toxicological Profile for 1,1-Dichloroethane. U.S. Department of Health and Human Services, Public Health Service, Georgia, USA.

Study Citation: OECD Harmonized	DOE, (2016). T Melting Point	able 1: Chemicals of concern and asso	ciated chemical inf	ormation. PACs.
Template:	Menting Point			
HERO ID:	3981013			
	5701015			AT
Parameter		Data	EXTRACTIO	N
		Dum		
Melting Point		-96.9 - °C		
CASRN and Test Material	l	75-34-3; 1,1-dichloroethane		
Confidentiality, Type, and	Guideline	none; not specified; none		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR Notes: NR		
Results Details Methods	-	not reported		
Standard Deviation Result	s	not reported		
Results Details		not reported		
				-
Domain		Metric	EVALUATIO	Comments
Domain 1: Substance		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.
	Methe 2.	Appropriateness	Ingn	Measured data are consistent with the subject chemical substance structural features.
Domain 2: Test Reliabi	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 Quali	tv Determi	nation	High	

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

Study Citation: OECD Harmonized Template:	Dreher, E. L., E Melting Point	Beutel, K. K., Myers, J. D., Lübbe, T., Krie	eger, S., Pottenge	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.			
HERO ID:	4293766						
			EXTRACTIO	N			
Parameter		Data					
Melting Point		-96.6 °C					
CASRN and Test Material		75-34-3; Not Reported					
Confidentiality, Type, and	Guideline	None; Experimental; Not reported					
Solvent, Reactivity, Storage	e, and Stability	Not reported; Not reported; Not reported	; Not reported				
Radiolabel, Source, State, and Purity		Not reported; Not reported; Not reported	; Not reported Note	es: Not reported			
		Not reported					
Standard Deviation Results Not report		Not reported	Not reported				
Results Details		Not Reported					
			EVALUATIO				
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 Reliabil	lity						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determi	nation	High				

Study Citation: OECD Harmonized	Elsevier, (2019) Melting Point). Reaxys: physical-chemical property dat	ta for 1,1-dichlor	roethane. CAS Registry Number: 75-34-3			
Template: HERO ID:	5926414						
			EXTRACTIO	N			
Parameter		Data					
Melting Point		-97.496.6 °C					
CASRN and Test Material		75-34-3; 1,1-Dichloroethane					
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported					
Solvent, Reactivity, Storag	ge, and Stability	NR; NR; NR; NR					
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR					
Results Details Methods		Measured conditions were not reported; 6 values were reported in Reaxys; 5 of these values were reported in the range of -97.4 to -96.6°C; 1 data					
Standard Deviation Result	\$	point was outside the range. Not Reported					
Results Details	5	Not Reported					
Domain		Metric	EVALUATIO Rating	N Comments			
Domain 1: Substance			8				
	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 Reliabi	lity						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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.			

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

Study Citation:	Li, M., J.C., Pitzer, K. S. (1956). The thermodynamic properties of 1,1-dichloroethane: Heat capacities from 14 to 294°K., heats of fusion and vaporization,						
OECD Harmonized vapor pressure and entropy of the ideal gas. The barrier to internal rotation. Journal of the American Chemical Society 78(6):1077-1080. Melting Point							
Template:	g						
HERO ID:	9087635						
	EXTRACTION						
Parameter	Data						
r al allieter							
Melting Point	= 176.18 - K						
CASRN and Test Material	1 75-34-3; 1,1-Dichloroethane						
Confidentiality, Type, and	Guideline None; Experimental (Extrapolation); None, fraction melting observed						
Solvent, Reactivity, Storag	ge, and Stability NA; NA; NA						
Radiolabel, Source, State,	and Purity NA; Reported as commercially available; Solid and liquid; purity 99.87% by fractional distillation and recrystallization 3 times Notes: NA						
Results Details Methods	Results extrapolated to complete melting (0.90 fraction melted at 176.13K).						
Standard Deviation Results	ts ± 0.5						
	Not Reported						

			EVALUATIO	
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 Reliab	ility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation:		. NIOSH pocket guide to chemical hazar	rds.	
OECD Harmonized	Melting Point			
Template: HERO ID:	192177			
HERO ID:	192177			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-143 - F		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Results Details Methods	-	NR		
Standard Deviation Results		NR		
Results Details		Reported as freezing point		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			8	
	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 Reliabil	itv			
_ , 1000 100110011	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain J. Outer	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.
			*	c c c c c c c c c c c c c c c c c c c
Overall Qualit	v Determi	nation	High	

Study Citation:	NIOSH, (1978).	Occupational health guideline for 1,1-0	lichloroethane.	
OECD Harmonized	Melting Point			
Template:				
HERO ID:	8435203			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-96.7 - °C		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Results Details Methods		NR		
Standard Deviation Results	5	NR		
Results Details		Also reported as -142F.		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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 Quali	ty Determi	nation	High	

* Related References: Several references listed in the reference but not attributed to specific data.

Study Citation: OECD Harmonized	NLM, (2018). H Melting Point	PubChem: Hazardous Substance Data Bas	nk: 1,1-Dichloro	ethane, 75-34-3.
Template:	Menting Point			
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data	EXTRACTIO	1
Melting Point		-96.93 °C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and		None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	6	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5. 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 Quali	tv Determi	nation	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: OECD Harmonized	O'Neil, M. J. (2 Melting Point	2013). Ethylidene chloride. 75-34-3. [1,1-	Dichloroethane]	. :705.
Template:	Wenning Folint			
HERO ID:	5926374			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-98 °C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	tv Determi	nation	High	

Study Citation: OECD Harmonized	RSC, (2019). C Melting Point	hemSpider: 1,1-Dichloroethane.		
Template:	Weiting I olin			
HERO ID:	5926256			
			EXTRACTION	
Parameter		Data		
Melting Point		-98 °C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	8	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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	tv Determi	nation	Medium	

* Related References: SynQuest

Study Citation: OECD Harmonized	Rumble, J. R. (2 Melting Point	2018). 1,1-Dichloroethane. :3-16.		
Template:	Weiting I ollit			
HERO ID:	5331600			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-96.93 °C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available secondary source with references to a peer-reviewed database.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

Study Citation:		9). Chemistry Dashboard Information for	1,1-Dichloroeth	ane. 75-34-3
OECD Harmonized	Melting Point			
Template: HERO ID:	5926139			
HERU ID:	3920139			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-96.9 °C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	3	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Quali	ty Determi	nation	High	

* Related References: PhysProp

Study Citation: OECD Harmonized Template:	U.S. EPA, (201 Melting Point	9). Chemistry Dashboard Information for	r 1,1-Dichloroeth	ane. 75-34-3
HERO ID:	5926139			
			EXTRACTIO	N
Parameter		Data		
Melting Point		-97.2 °C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain J. Oulor	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 Qualit	ty Dotormi	nation	High	

* Related References: NIOSH

Study Citation: OECD Harmonized	U.S. EPA, (201 Melting Point	9). Chemistry Dashboard Information for	or 1,1-Dichloroethane. 7	75-34-3
Template:	6			
HERO ID:	5926139			
			EXTRACTION	
Parameter		Data		
Melting Point		-97 °C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	8	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determi	nation	Medium	

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

Study Citation: OECD Harmonized	U.S. EPA, (201 Melting Point	9). Chemistry Dashboard Information for	or 1,1-Dichloroethane.	75-34-3
Template:	6			
HERO ID:	5926139			
			EXTRACTION	
Parameter		Data		
Melting Point		-96.9 °C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Results Details Methods		Not Reported		
Standard Deviation Results	5	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	tv Determi	nation	Medium	

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

Study Citation:			essment (OEHHA) (2011). Appendix B: Chemical-specific summaries of the information used to
OECD Harmonized		and cancer potency values.		
Template:	Boiling Point			
HERO ID:	5155632			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		57.3 C		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; Not reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR Notes: NR		
Standard Deviation Results	•	NR		
Results Details		Not Reported		
			EVALUATIO	
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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				
2 Sinun S. Ouler	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 Quali	tv Determi	nation	High	

* Related References: Citing ATSDR 1990, HERO ID 644890 (likely collected from Merck; same value as HERO ID 5926374).

Study Citation:			sment (OEHHA) (200	3). Public health goals for chemicals in drinking water: 1,1-dichloroethane			
OECD Harmonized	in drinking wate Boiling Point	er.					
Template:	0						
HERO ID:	5155634						
			EXTRACTION				
Parameter		Data					
י היוי ה		57.2.0					
Boiling Point		57.3 C					
CASRN and Test Material	Caritatian	75-34-3; 1,1-Dichloroethane					
Confidentiality, Type, and		None; calculation; NA NA; NA; NA; NA					
Solvent, Reactivity, Storage Radiolabel, Source, State, a		NA; NA; NA; NA NA; NA; NA; NA Notes: NA					
Standard Deviation Results		0.2					
Results Details		0.2 Reported values are mean and standard deviation of the values found in a handbook.					
Results Details		Reported values are mean and standard d	eviation of the values to				
			EVALUATION				
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 Reliabil	litv						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determi	nation	Medium				

* Related References: Citing Mackay, D; Shiu, WY; Ma, KC (1993) Illustrated handbook of physical-chemical properties and environmental fate for organic chemicals. Volume I.

Study Citation: OECD Harmonized	Canada,, G.o. (2 Boiling Point	2021). Fact sheet: 1,1-dichloroethane.		
Template:	Doning I onit			
HERO ID:	7309759			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		57 - C		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Standard Deviation Results	5	NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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 Qualit	tv Determi	nation	High	

* Related References: Citing Agency for Toxic Substances and Disease Registry (ATSDR), 1990. Toxicological Profile for 1,1- Dichloroethane. U.S. Department of Health and Human Services, Public Health Service, Georgia, USA.

Study Citation: OECD Harmonized	DOE, (2016). T Boiling Point	Chemicals of concern and associate	ciated chemical inf	formation. PACs.
Template: HERO ID:	3981013			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		57.3 - C		
CASRN and Test Material		75-34-3; 1,1-dichloroethane		
Confidentiality, Type, and	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Standard Deviation Results	3	not reported		
Results Details		@ 760 mm Hg		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	tv Determi	nation	High	

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

Study Citation: DECD Harmonized	Boiling Point	, , <u>,</u> , , , , , , , , , , , , , , , ,	<i>c</i> ,,	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
Template: HERO ID:	4293766			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		57.3 C		
CASRN and Test Material		75-34-3; Not Reported		
Confidentiality, Type, and Guideline None; Experimental; Not reported				
Solvent, Reactivity, Storage, and Stability Not reported; Not reported; Not		Not reported; Not reported; Not reported	; Not reported	
Radiolabel, Source, State, and Purity Not reported; Not re		; Not reported Note	es: Not reported	
Standard Deviation Results Not reported		Not reported		
Results Details		Boiling point at 101.3 kPa		
			EVALUATIO	N
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 Reliabili	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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				
2 chian 5. Guior	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 Qualit	v Determi	nation	High	

Study Citation:	Elsevier, (2019). Reaxys: physical-chemical property data for 1,1-dichloroethane. CAS Registry Number: 75-34-3						
OECD Harmonized	Boiling Point	Boiling Point					
Template:							
HERO ID:	5926414						
		EXTRACTION					
Parameter		Data					
Boiling Point		56.5 - 59.2 C					
CASRN and Test Material		75-34-3; 1,1-Dichloroethane					
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported					
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR					
Radiolabel, Source, State,	and Purity	NR; NR; NR					
Standard Deviation Results		Not Reported					
Results Details		@ 760-761 torr; 18 values were reported in Reaxys; 8 of these values were reported in the range of 56.5 to 59.2 C at 760-761 torr; 10 values were outside this range or measured at unreported or non-standard pressures.					

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance	e			
	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 Relia	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qua	lity Determi	ination	High	

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

Study Citation: OECD Harmonized		. NIOSH pocket guide to chemical haza	urds.	
Template:	Boiling Point			
HERO ID:	192177			
			EXTRACTIO	N
Parameter		Data	EATRACIIO	1
Boiling Point		135 - F		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; None		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	•	NR; NR; NR; NR Notes: NR		
Standard Deviation Result	s	NR		
Results Details		at 1 atmosphere		
			EVALUATIO	N
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 Reliabi	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain J. Oulei	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 Quali	ty Determi	nation	High	

Study Citation: OECD Harmonized	NIOSH, (1978) Boiling Point	. Occupational health guideline for 1,1-d	ichloroethane.	
Template:	Bolling Folin			
HERO ID:	8435203			
			EXTRACTIO	N
Parameter		Data	EATRACIIO	1
Boiling Point		57.3 - C		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Standard Deviation Results		NR		
Results Details		at 760 mmHg, also reported as 135F		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			0	
	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	High	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)	-	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 Qualit	y Dotormi	nation	High	

* Related References: Several references listed in the reference but not attributed to specific data.

Study Citation: DECD Harmonized	NIST, (2022). N Boiling Point	NIST Chemistry WebBook. Ethane, 1,1-d	ichloro- (75-34-3	3). Standard Reference Database No. 69.				
Template:	-							
HERO ID:	10225173							
			EXTRACTIO	N				
Parameter		Data						
Boiling Point		330.5 K						
CASRN and Test Material		75-34-3; Not Reported						
Confidentiality, Type, and	Guideline	Not Reported; Not Reported; Not Report	ted					
		Not Reported; Not Reported; Not Report	ted; Not Reported					
Radiolabel, Source, State,	and Purity	Not Reported; Not Reported; Not Report	Not Reported; Not Reported; Not Reported; Not Reported					
Standard Deviation Results 0.5 K		0.5 K						
Results Details		Average of 18 values.						
			EVALUATIO	N				
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 Reliabil	lity							
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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.				
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.				
Overall Quali	ty Determi	nation	High					

Study Citation: OECD Harmonized	NLM, (2018). I Boiling Point	PubChem: Hazardous Substance Data Ba	nk: 1,1-Dichloro	ethane, 75-34-3.
Template:	Doning Fond			
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		57.4 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	v Determi	nation	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: OECD Harmonized	O'Neil, M. J. (2 Boiling Point	2013). Ethylidene chloride. 75-34-3. [1,1	-Dichloroethane]	. :705.
Template:	Doning I onit			
HERO ID:	5926374			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		57.3 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Standard Deviation Result	8	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabi	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Quali			High	

Study Citation: OECD Harmonized		2018). 1,1-Dichloroethane. :3-16.		
Template:	Boiling Point			
HERO ID:	5331600			
			EXTRACTIO	N
Parameter		Data	EATRACIIO	
Boiling Point		56.3 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Standard Deviation Result	s	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabi	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5. Outer	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.
	metrie 0.	models	1 1/2 1	Rating of any factor is not applicable to this kind of information.
Overall Quali	tv Determi	nation	High	

Study Citation: OECD Harmonized	Rumble, J. R. (2 Boiling Point	2018). Flammability of chemical substar	nces. :16-16 - 16-3	32.
Template:	Doning Fond			
HERO ID:	6655446			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		56.3		
CASRN and Test Material		Not Reported; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	none; experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Standard Deviation Results		Not reported		
Results Details		Not reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determi	nation	High	

Study Citation: OECD Harmonized	U.S. EPA, (2019 Boiling Point	9). Chemistry Dashboard Information for	1,1-Dichloroeth	ane. 75-34-3
Template:	8			
HERO ID:	5926139			
			EXTRACTIO	N
Parameter		Data		
Boiling Point		57.4 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	•	NR; NR; NR; NR		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	ty Determi	nation	High	

* Related References: PhysProp

	9). Chemistry Dashboard Information for	r 1,1-Dichloroeth	ane. 75-34-3
2 ching i chin			
5926139			
		EXTRACTIO	N
	Data		
	57.2 C		
	75-34-3; 1,1-Dichloroethane		
uideline			
	NR; NR; NR; NR		
	NR; NR; NR; NR		
-	Not Reported		
	Not Reported		
		EVALUATIO	N
	Metric	Rating	Comments
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.
ty			
Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
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.
1	Boiling Point 5926139 iuideline , and Stability nd Purity Metric 1: Metric 2: ty Metric 3: Metric 4:	Boiling Point 5926139 Data 57.2 C 75-34-3; 1,1-Dichloroethane None; Experimental; Not Reported , and Stability nd Purity NR; NR; NR; NR Not Reported Not Reported Metric Metric 1: Representativeness Metric 2: Appropriateness ty Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4:	5926139 EXTRACTIO Data 57.2 C 75.34.3; 1,1-Dichloroethane buideline None; Experimental; Not Reported , and Stability NR; NR; NR Not Reported Not Reported Not Reported Not Reported Metric 1: Representativeness High Metric 2: Appropriateness High ty Metric 3: Reliability/Unbiased Medium (Method Objectivity) Metric 4: Reliability/Analytical Method Medium

* Related References: NIOSH

Study Citation: OECD Harmonized	U.S. EPA, (201 Boiling Point	9). Chemistry Dashboard Information f	for 1,1-Dichloroethane.	75-34-3
Template:	Bonnig Fonit			
HERO ID:	5926139			
			EXTRACTION	
Parameter		Data	EATKACTION	
		Data		
Boiling Point		57 C		
CASRN and Test Material		75-34-3; 1.1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATION	
Domain		Metric	Rating	Comments
Domain 1: Substance		Wette	Rating	connients
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 Reliabil	ity			
2 chian 2. Tost Kondon	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Low	The analytical method is unknown and there is no indication that a reliable method was used.
Domain 3: Other				
Domain 5. Outer	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 Qualit	tv Determi	nation	Medium	

* Related References: SynQuest

Study Citation: OECD Harmonized	U.S. EPA, (2019 Boiling Point	9). Chemistry Dashboard Information f	or 1,1-Dichloroethane.	75-34-3
Template:	Doming I omit			
HERO ID:	5926139			
	5720157			
Description		Dete	EXTRACTION	
Parameter		Data		
Pailing Daint		57 C		
Boiling Point CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guidalina	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Standard Deviation Results	•	Not Reported		
Results Details	3	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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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				
Domain 5. 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 Quali	tv Determi	nation	Medium	

* Related References: Matrix Scientific

Study Citation: OECD Harmonized	U.S. EPA, (2019 Boiling Point	9). Chemistry Dashboard Information f	or 1,1-Dichloroethane.	75-34-3
Template:	Doming I omit			
HERO ID:	5926139			
	5720157			
Description		Dete	EXTRACTION	
Parameter		Data		
Pailing Daint		57 C		
Boiling Point CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guidalina	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Standard Deviation Results	•	Not Reported		
Results Details	3	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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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				
Domain 5. 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 Quali	tv Determi	nation	Medium	

* Related References: Matrix Scientific

Study Citation:	Varushchenko, R. M., Druzhinina, A. I., Kuramshina, G. M., Dorofeeva, O. V. (2007). Thermodynamics of vaporization-of some freons and halogenated						
OECD Harmonized	ethanes and propanes. Fluid Phase Equilibria 256(1-2):112-122. D Harmonized Boiling Point						
Template:	Doning I onit	Dolling I olit					
HERO ID:	5434414						
			EXTRACTION				
Parameter		Data					
Boiling Point		330.37 K					
CASRN and Test Materia	1	75-34-3; 1,1-Dichloroethane					
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported					
Solvent, Reactivity, Stora	ge, and Stability	NR; NR; NR; NR					
Radiolabel, Source, State,	and Purity	NR; Prepared by Samara State	Technical University and A.N. Nesmeyanov Institut	te of Organoelement Compounds; NR; 99.9%			
Standard Deviation Resul	ts	0.01					
Results Details		measured using a differential e	ebulliometer				
			EVALUATION				
Domain		Metric	Rating	Comments			

Domain		Metric	Rating	Comments
Domain 1: Substance	e			
	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 Relia	bility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation: OECD Harmonized	Canada,, G.o. (2 Density	2021). Fact sheet: 1,1-dichloroethane.		
Template:				
HERO ID:	7309759			
			EXTRACTIO	N
Parameter		Data		
Density		1.17 -		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and C	Guideline	None; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Density Type		relative density		
System		NR		
Temperature		NR		
Standard Deviation Results		NR		
Results Details		density relative to water (water=1)		
			EVALUATIO	AT
Domain		Metric	Rating	Comments
Domain 1: Substance		Wette	Kating	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.
	Wieute 2.	Appropriateness	IV/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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				
Domain 5: 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 Qualit	ty Determi	nation	High	

* Related References: Citing Agency for Toxic Substances and Disease Registry (ATSDR), 1990. Toxicological Profile for 1,1- Dichloroethane. U.S. Department of Health and Human Services, Public Health Service, Georgia, USA.

Study Citation: OECD Harmonized	Canada,, G.o. (2 Density	2021). Fact sheet: 1,1-dichloroethane.		
Template:	,			
HERO ID:	7309759			
			EXTRACTIO	N
Parameter		Data		
Density		3.4 -		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	None; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Density Type		vapor density		
System		NR		
Temperature		NR		
Standard Deviation Results	8	NR		
Results Details		density relative to air (air=1.29)		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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				
Domain 5. 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 Quali	ty Determi	nation	High	

* Related References: Citing Agency for Toxic Substances and Disease Registry (ATSDR), 1990. Toxicological Profile for 1,1- Dichloroethane. U.S. Department of Health and Human Services, Public Health Service, Georgia, USA.

Study Citation: OECD Harmonized	DOE, (2016). T Density	Cable 1: Chemicals of concern and associa	ted chemical inf	ormation. PACs.
Template:	2			
HERO ID:	3981013			
			EXTRACTIO	N
Parameter		Data		
Density		1.757 -		
CASRN and Test Material		75-34-3; 1,1-dichloroethane		
Confidentiality, Type, and	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Density Type		specific gravity (density of a substance d	ivided by the densi	ty of water)
System		not specified		
Temperature		20°C		
Standard Deviation Results		not reported		
Results Details		not reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit			High	

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

Study Citation: DECD Harmonized Femplate:	Dreher, E. L., B Density	Beutel, K. K., Myers, J. D., Lübbe, T., Kri	eger, S., Pottenge	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.		
HERO ID:	4293766					
			EXTRACTIO	N		
Parameter		Data				
Density		1.176 g/cm3				
CASRN and Test Material		75-34-3; Not Reported				
Confidentiality, Type, and Guideline None; Experimental; Not reported						
		Not reported; Not reported; Not reported	-			
Radiolabel, Source, State, and Purity		Not reported; Not reported; Not reported	; Not reported Note	es: Not reported		
Density Type		Density				
System		Not reported				
Temperature		20°C				
Standard Deviation Results	8	Not reported				
Results Details		Not Reported				
			EVALUATIO	N		
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 Reliabil	lity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	ty Determi	nation	High			

Study Citation: OECD Harmonized Tomplate:	NIOSH, (2007) Density	. NIOSH pocket guide to chemical haza	urds.	
Template: HERO ID:	192177			
			EXTRACTION	
Parameter		Data		
Density		1.18 - Not reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; NR		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR Notes: NR		
Density Type		Specific gravity		
System		Not reported		
Temperature		Not Reported		
Standard Deviation Results	8	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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	tv Determi	nation	Medium	

Study Citation: OECD Harmonized	NIOSH, (1978) Density	. Occupational health guideline for 1,1-di	chloroethane.	
Template: HERO ID:	8435203			
	8433203			
D		Dete	EXTRACTIO	N
Parameter		Data		
Density		1.2 -		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and C	Guideline	none; not specified; NR		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Density Type	·	specific gravity		
System		NR		
Temperature		NR		
Standard Deviation Results		NR		
Results Details		specific gravity relative to water (water =	:1)	
			EVALUATIO	Ň
Domain		Metric	Rating	Comments
Domain 1: Substance			0	
	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 Reliabil	itv			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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 Qualit	ty Determi	nation	High	

* Related References: Several references listed in the reference but not attributed to specific data.

Study Citation: OECD Harmonized	NIOSH, (1978) Density	. Occupational health guideline for 1,1-die	chloroethane.	
Template:	8425202			
HERO ID:	8435203			
. .			EXTRACTIO	N
Parameter		Data		
Density		3.4 -		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Density Type		vapor density		
System		NR		
Temperature		NR		
Standard Deviation Results	8	NR		
Results Details		air =1, at boiling point of 1,1-DICHLORO	DETHANE	
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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 Qualit	ty Determi	nation	High	

* Related References: Several references listed in the reference but not attributed to specific data.

Study Citation: OECD Harmonized Template:	Elsevier, (2019) Density). Reaxys: physical-chemical property dat	a for 1,1-dichlor	roethane. CAS Registry Number: 75-34-3
HERO ID:	5926414			
			EXTRACTIO	N
Parameter		Data		
Density		1.1679 - 1.1805 g/cm3		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	•	NR; NR; NR; NR		
Temperature		20-25°C		
Standard Deviation Results	5	Not Reported		
Results Details		@20-25°C; 26 values were reported in R range or measured at unreported or non-s		were reported in the range of 1.1679 to 1.1805 at 20-25°C; 13 values were outside this res.
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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: OECD Harmonized	NLM, (2018). I Density	PubChem: Hazardous Substance Data Bar	nk: 1,1-Dichloro	ethane, 75-34-3.
Template:	Density			
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
Density		1.1680 - 1.175 g/cm3		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and (Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	•	NR; NR; NR; NR		
Temperature	· · ·····	1.1680 @ 25 C; 1.175 @ 20 C		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	v Determi	nation	High	

* Related References: O'Neil, M.J. (ed.). The Merck Index - An Encyclopedia of Chemicals, Drugs, and Biologicals. Cambridge, UK: Royal Society of Chemistry, 2013., p. 705

Template: 5926374 Parameter Data Parameter Data Density 1.1757 g/cm3 CASRN and Test Material 75:34-3: 1.1-Dichloroethane Confidentiality, Type, and Guideline None: Experimental: Not Reported Solvent, Reactivity, Storage, and Stability NR: NR: NR Radiolabel, Source, State: and Purity NR: NR: NR Temperature 20°C Standard Deviation Results Not Reported Results Details at 20°C relative to water at 4°C Domain Metric 1: Representativeness High Netric 2: Data are measured or estimated for the subject chemical substance. Metric 2: Appropriateness N/A Domain 2: Test Reliability Reliability/Unbiased (Method Objectivity) Medium There is no indication that the methodology for producing the information. Domain 3: Other Metric 5: Databases High N/A Data is from a recognized, peer-reviewed data collection. Metric 6: Models	Study Citation: OECD Harmonized	O'Neil, M. J. (2 Density	2013). Ethylidene chloride. 75-34-3. [1,1-	Dichloroethane]	. :705.
HERO ID: 5926374 Parameter EXTRACTION Density 1.1757 g/cm3 CASRN and Test Material None: Experimental: No Reported Solven, Readivity, Storage, and Stability NR: NR: NR: NR Density NR: NR: NR: NR Radiolabel, Source, State, and Fund Note Reported Solven, Readivity, Storage, and Stability NR: NR: NR: NR Domain EVALUATION Comments Domain Metric Reported Comments Domain 1: Substance Metric Representativeness High Netric 2: Data are measured or estimated for the subject chemical substance. Metric 2: Representativeness High NK Data are measured or estimated for the subject chemical substance. Metric 3: Reliability/Unbiased (Method Objectivity) Medium There is no indication that the methodology for producing the information. Domain 3: Other Metric 5: Databases High Nodels Data is from a recognized, peer-reviewed database or other secondary source.		Density			
Parameter Data Density 1.1757 g/cm3 CASRN and Test Material 75-34-3; 1,1-Dichloroethane Condientiality, Type, and Guideline None; Experimental; Not Reported Solvent, Reactivity, Storage, and Stability NR; NR; NR Madiolabel, Source, State, and Purity NR; NR; NR; NR NR; Rest: NR; NR NR; NR; NR; NR Standard Deviation Results Not Reported Standard Deviation Results Not Reported Bornain Metric Results Details Metric 1: Representativeness High Domain 1: Substance Metric 2: Metric 1: Representativeness N/A Rating of this factor is not applicable to this kind of information. Metric 2: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Metric 5: Databases Domain 3: Other Metric 5: Metric 6: Nodels	HERO ID:	5926374			
Parameter Data Density 1.1757 g/cm3 CASEN and Test Material 75-34-3; 1,1-Dichloroethane Condidentiality, Type, and Guideline None; Experimental; Not Reported Solvent, Reactivity, Storage, and Stability NR; NR; NR; NR Madiolabel, Source, State, and Purity NR; NR; NR; NR NR; Row, SN; NR; NR; NR NR; NR; NR; NR; NR Standard Deviation Results Not Reported Source, State, and Purity NR; Preview at 4°C Domain Metric 1: Representativeness High Domain 1: Substance Metric 2: Metric 2: Appropriateness N/A Rating of this factor is not applicable to this kind of information. Domain 2: Test Reliability Metric 3: Metric 4: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Metric 5: Databases Domain 3: Other Metric 5: Metric 6: Nidelis Metric 6: Nidelis N/A Rating of this factor is not applicable to this kind of information.				EXTRACTIO	N
CASRN and Test Material 75-34-3; 1,1-Dichloroethane Confidentiality, Type, and Guideline None: Experimental; Not Reported Solvent, Reactivity, Storage, and Stability NR; NR; NR Radiolabel, Source, State, and Purity NR; NR; NR; NR Radiolabel, Source, State, and Purity NR; NR; NR; NR Temperature 20°C Standard Deviation Results Not Reported Results Details Not Reported Results Details 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 was biased (Metric 3: Reliability/Unbiased (Method Metric 4: Reliability/Analytical Method Metric 4: Reliability/Analytical Method Metric 5: Databases High Data is from a recognized, peer-reviewed data collection. Metric 5: Databases N/A Rating of this factor is not applicable to this kind of information.	Parameter		Data		-
CASRN and Test Material 75-34-3; 1,1-Dichloroethane Confidentiality, Type, and Guideline None: Experimental: Not Reported Solvent, Reactivity, Storage, and Stability NR: NR: NR: NR Radiolabel, Source, State, and Purity NR: NR: NR: NR Temperature 20°C Standard Deviation Results Not Reported Results Details Not Reported Results Details Comments 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 was biased (Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Metric 5: Databases High Data is from a recognized, peer-reviewed data collection. 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.					
Confidentiality, Type, and Guideline None; Experimental; Not Reported Solvent, Reactivity, Storage, and Stability NR; NR; NR Radiolabel, Source, State, and Purity NR; NR; NR Temperature 20°C Standard Deviation Results Not Reported at 20°C relative to water at 4°C EVALUATION Domain Metric Results Details at 20°C relative to water at 4°C Domain 1: Substance Metric 1: Metric 2: Appropriateness Metric 2: Appropriateness Note N/A Realiability/Unbiased (Method Objectivity) Medium Metric 4: Reliability/Unbiased (Method Objectivity) Medium Metric 4: Databases High Medium Analytical method is unknown but is likely to be appropriate based on the data's inclusion in a per-reviewed/recognized database or other secondary source. Domain 3: Other Metric 5: Databases High Metric 6: Data is from a recognized, peer-reviewed data collection.	Density		e		
Solvent, Reactivity, Storage, and Stability NR; NR; NR; NR Radiolabel, Source, State, and Purity NR; NR; NR; NR Temperature 20°C Standard Deviation Results Not Reported at 20°C relative to water at 4°C EVALUATION Domain Metric C Results Details at 20°C relative to water at 4°C Comments Comments Domain 1: Substance Metric 1: Metric 2: Appropriateness Metric 2: Appropriateness NG Medium Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other Metric 5: Metric 5: Databases Metric 6: Models					
Radiolabel, Source, State, and Purity 20°C Standard Deviation Results NR; NR; NR; NR 20°C Standard Deviation Results Active to water at 4°C Domain 2: Test Reliability Metric 3: Reliability/Unbiased (Metric 4: Reliability/Analytical Method Metric 4: Reliability/Analytical Method 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.	Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported		
Temperature 20°C Standard Deviation Results Not Reported at 20°C relative to water at 4°C Domain Metric Results Details Reported Atting Comments Domain 1: Substance Metric 1: Metric 2: Appropriateness Metric 2: Appropriateness Metric 3: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Unbiased (Method Objectivity) Metric 4: Reliability/Analytical Method Domain 3: Other Metric 5: Metric 5: Databases Metric 6: Models	Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Standard Deviation Results Not Reported at 20°C relative to water at 4°C Besults Details Not Reported at 20°C relative to water at 4°C Domain Metric EVALUATION Domain 1: Substance Metric 1: Representativeness High Metric 0 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. Domain 3: Other Metric 5: Databases High Metric 6: Data is from a recognized, peer-reviewed data collection.	Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Results Details at 20°C relative to water at 4°C 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. Domain 3: Other Metric 5: Databases High Metric 6: Data is from a recognized, peer-reviewed data collection.	Temperature		20°C		
Domain Metric EVALUATION Domain 1: Substance Metric 1: Representativeness High Data are measured or estimated for the subject chemical substance. Metric 2: Appropriateness High Data are measured or estimated for the subject chemical substance. Domain 2: Test Reliability Metric 3: Reliability/Unbiased (Method Objectivity) Medium There is no indication that the methodology for producing the information was biased towards a particular product or outcome. Domain 3: Other Metric 5: Databases High Metric 6: Data is from a recognized, peer-reviewed data collection.	Standard Deviation Results		Not Reported		
Domain Metric Rating Comments Domain 1: Substance Metric 1: Representativeness High N/A 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 Medium There is no indication that the methodology for producing the information was biased towards a particular product or outcome. Metric 4: Reliability/Analytical Method Medium Medium Analytical method is unknown but is likely to be appropriate based on the data's inclu sion in a peer-reviewed/recognized database or other secondary source. Domain 3: Other Metric 5: Databases High Models Data is from a recognized, peer-reviewed data collection. N/A	Results Details		at 20°C relative to water at 4°C		
Domain Metric Rating Comments Domain 1: Substance Metric 1: Representativeness High N/A 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 Medium There is no indication that the methodology for producing the information was biased towards a particular product or outcome. Metric 4: Reliability/Analytical Method Medium Medium Analytical method is unknown but is likely to be appropriate based on the data's inclu sion in a peer-reviewed/recognized database or other secondary source. Domain 3: Other Metric 5: Databases High Models Data is from a recognized, peer-reviewed data collection. N/A				EVALUATIO	N
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 Medium 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.	Domain		Metric		
Metric 1: Representativeness High Netric 2: Data are measured or estimated for the subject chemical substance. Domain 2: Test Reliability Metric 3: Reliability/Unbiased (Method Objectivity) N/A Redium 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 Metric 6: 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.	Domain 1: 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.		Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
Domain 2: Test Reliability Metric 3: Reliability/Unbiased (Method Objectivity) Medium 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.			1	-	
Metric 3: Reliability/Unbiased (Method Objectivity) Medium 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.					
Metric 3: Reliability/Unbiased (Method Objectivity) Medium 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.	Domain 2: Test Reliabil	ity			
(Method Objectivity) 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.		•	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
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.					
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.		Metric 4:		Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer reviewed/recognized database or other secondary source.
Metric 5:DatabasesHighData is from a recognized, peer-reviewed data collection.Metric 6:ModelsN/ARating of this factor is not applicable to this kind of information.					sion in a peer-reviewed/recognized database of outer secondary source.
Metric 6: Models N/A Rating of this factor is not applicable to this kind of information.	Domain 3: Other				
Metric 6:ModelsN/ARating of this factor is not applicable to this kind of information.		Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
		Metric 6:	Models		Rating of this factor is not applicable to this kind of information.
Overall Quality Determination High	Overall Oveli	v Dotormi	nation	High	

Study Citation: OECD Harmonized	O'Neil, M. J. (2 Density	2013). Ethylidene chloride. 75-34-3. [1,1	-Dichloroethane]	. :705.
Template: HERO ID:	5926374			
			EXTRACTIO	N
Parameter		Data		
Density		1.1680 g/cm3		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		25°C		
Standard Deviation Results		Not Reported		
Results Details		at 25°C relative to water at 4°C		
			EVALUATIO	N
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 Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
2 sinain 5. outer	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 Qualit	v Determi	nation	High	

Study Citation: OECD Harmonized	RSC, (2019). C Density	ChemSpider: 1,1-Dichloroethane.		
Template:	Density			
HERO ID:	5926256			
			EXTRACTION	
Parameter		Data	EATRACTION	
Density		1.18 g/cm3		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Temperature	2	20°C		
Standard Deviation Results	8	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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	tv Determi	nation	Medium	

* Related References: SynQuest

Study Citation: OECD Harmonized	RSC, (2019). C Density	hemSpider: 1,1-Dichloroethane.		
Template:				
HERO ID:	5926256			
			EXTRACTION	
Parameter		Data		
Density		1.18 g/cm3		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		Not Reported		
Standard Deviation Results	6	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determi	nation	Medium	

* Related References: Matrix Scientific

Study Citation: OECD Harmonized	Rumble, J. R. (2 Density	2018). 1,1-Dichloroethane. :3-16.		
Template:	Density			
HERO ID:	5331600			
			EXTRACTIO	N
Parameter		Data		
Density		1.1757 g/cm3		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		20°C		
Standard Deviation Results	3	Not Reported		
Results Details		20°C		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	tv Determi	nation	High	

Study Citation:	NCBI, (2020). PubChem database: compound summary: 1,1-dichloroethane.					
OECD Harmonized	Density					
Template:	((20204					
HERO ID:	6629204					
			EXTRACTIO	N		
Parameter		Data				
Density		3.44				
CASRN and Test Material		75-34-3; 1,1-DCA				
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				
Domain		Metric	EVALUATIO	Comments		
Domain 1: Substance		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.		
	Wietrie 2.	Appropriateness	Ingn	weasured data are consistent with the subject chemical's physical chemical properties.		
Domain 2: Test Reliabili	itv					
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-		
		(Method Objectivity)	e	tion, 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 inclu- sion in a peer- reviewed/recognized database or other secondary source.		
Domain 3: Other						
Domain 5. Outer	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 Qualit	y Dotormi	nation	High			

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

Study Citation: OECD Harmonized	NCBI, (2020). PubChem database: compound summary: 1,1-dichloroethane. Density					
Template:						
HERO ID:	6629204					
			EXTRACTIO	N		
Parameter		Data				
Density		3.4				
CASRN and Test Material		75-34-3; 1,1-DCA				
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)				
			EVALUATIO	N		
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 Reliabil	ity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, 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 inclu- sion 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: OECD Harmonized	NCBI, (2020). Density	PubChem database: compound summary	: 1,1-dichloroeth	ane.
Template:				
HERO ID:	6629204			
			EXTRACTIO	N
Parameter		Data		
Density		3.44		
CASRN and Test Material		75-34-3; 1,1-DCA		
Confidentiality, Type, and	Guideline	None; Experimental; Not specified		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	•	NR; NR; NR; NR		
System		Not reported		
Temperature		Not Reported		
Standard Deviation Results	1	Not reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, 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 inclu- sion 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 Qualit	ty Determi	nation	High	

* Related References: Occupational Safety and Health Administration (OSHA)

Study Citation: OECD Harmonized	NLM, (2018). F Density	PubChem: Hazardous Substance Data B	ank: 1,1-Dichloro	ethane, 75-34-3.
Template:	Delisity			
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		1
Density		3.44		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not reported		
Temperature		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		air = 1		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, 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 inclu- sion 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 Quali	tv Determi	nation	High	

* Related References: NOAA, CAMEO Chemicals. Database of Hazardous materials. 1,1-Dichloroethane (75-34-3). Natl Ocean Atmos Admin, Off Resp Rest; NOAA Ocean Serv

Study Citation:			sment (OEHHA) (2011). Appendix B: Chemical-specific summaries of the information used to
OECD Harmonized	Vapor Pressure	and cancer potency values.		
Template:	vapor i ressure			
HERO ID:	5155632			
Parameter		Data	EXTRACTIO	N
		Dutu		
Vapor Pressure		230 mm Hg		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and (Guideline	none; not specified; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	-	NR; NR; NR; NR Notes: NR		
Temperature	-	25 deg C		
System		NR		
Standard Deviation Results	5	NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	itv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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				
Some States	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 Qualit	t v Determi	nation	High	

* Related References: Citing ATSDR 1990, HERO ID 644890.

Study Citation:	California Office o in drinking water.	f Environmental Health Hazard Assess	sment (OEHHA) (200	3). Public health goals for chemicals in drinking water: 1,1-dichloroethane
OECD Harmonized	Vapor Pressure			
Template:	-			
HERO ID:	5155634			
			EXTRACTION	
Parameter		Data		
Vapor Pressure		0.3 atm		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and G	luideline	None; calculation; NA		
Solvent, Reactivity, Storage,	, and Stability	NA; NA; NA; NA		
Radiolabel, Source, State, ar	nd Purity	NA; NA; NA; NA Notes: NA		
Temperature		NA		
System		NA		
Standard Deviation Results		0.0054		
Results Details		Reported values are mean and standard de	eviation of the values for	und in a handbook.
			EVALUATION	
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 Reliabilit	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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.

* Related References: Citing Mackay, D; Shiu, WY; Ma, KC (1993) Illustrated handbook of physical-chemical properties and environmental fate for organic chemicals. Volume I.

Study Citation: OECD Harmonized	Canada,, G.o. (2 Vapor Pressure	2021). Fact sheet: 1,1-dichloroethane.		
Template:	1			
HERO ID:	7309759			
Parameter		Data	EXTRACTIO	N
Parameter		Data		
Vapor Pressure		220 - mm Hg		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: very volatile		
Temperature		room temperature		
System		NR		
Standard Deviation Results	6	NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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				
Domain 5. Outer	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 Quali	tv Determi	nation	High	

* Related References: Citing Agency for Toxic Substances and Disease Registry (ATSDR), 1990. Toxicological Profile for 1,1- Dichloroethane. U.S. Department of Health and Human Services, Public Health Service, Georgia, USA.

Study Citation: OECD Harmonized	DOE, (2016). T Vapor Pressure	able 1: Chemicals of concern and associ	ated chemical inf	formation. PACs.
Template:	vapor riessure			
HERO ID:	3981013			
				N
Parameter		Data	EXTRACTIO	N
r al allietel		Data		
Vapor Pressure		75 - mm Hg		
CASRN and Test Material		75-34-3; 1,1-dichloroethane		
Confidentiality, Type, and	Guideline	none; not specified; not specified		
Solvent, Reactivity, Storage		NR; NR; NR		
Radiolabel, Source, State, a	-	NR; NR; NR; NR Notes: NR		
Temperature	·	1°C		
System		not reported		
Standard Deviation Results		not reported		
Results Details		not reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			0	
	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 Quali	v Determi	nation	High	

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

Study Citation: OECD Harmonized	Dreher, E. L., Bei Vapor Pressure	utel, K. K., Myers, J. D., Lübbe, T., Kri	ieger, S., Pottenge	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.			
Template: HERO ID:	4293766						
			EXTRACTIO	N			
Parameter		Data					
Vapor Pressure		24.27 kPa					
CASRN and Test Material		75-34-3; Not Reported					
Confidentiality, Type, and G	Buideline	None; Experimental; Not reported					
Solvent, Reactivity, Storage	, and Stability	Not reported; Not Reported; Not Report					
Radiolabel, Source, State, and Purity		Not Reported; Not Reported; Not Repor	ted; Not Reported				
Temperature		20°C					
System		Not reported					
Standard Deviation Results		Not Reported					
Results Details 9.34 kPa		9.34 kPa at 0°C; 15.37 kPa at 10°C; 36.9	0.34 kPa at 0°C; 15.37 kPa at 10°C; 36.95 kPa at 30°C				
			EVALUATIO	N			
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 Reliabili	ty						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 analyti- cal 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.			

Study Citation: OECD Harmonized	Elsevier, (2019) Vapor Pressure		ta for 1,1-dichlor	roethane. CAS Registry Number: 75-34-3
Template: HERO ID:	5926414			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		227.268 mm Hg		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Temperature		25°C		
System		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		8 data points were reported; 1 value wa non-standard or unreported temperatures		268 torr at standard temperature; 7 data points were outside the range, measured at
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Johnum J. Othor	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 Qualit	ty Determi	nation	High	

* Related References: Tse, Ginger; Sandler, Stanley I.; Journal of Chemical and Engineering Data; vol. 39; nb. 2; (1994); p. 354 - 357

Study Citation:Garcia-SanOECD HarmonizedVapor PressTemplate:1937605		r, F., Trejo, A. (1987). Vapor-pressure and critical constants of 1,1-dichloroethane. Journal of Chemical Thermodynamics 19(4):359-361.			
IIERO ID.	1757005	EXTRACTION			
Parameter		Data			
Vapor Pressure		8.3E4 Pa			
CASRN and Test Material		75-34-3; 1,1-Dichloroethane			
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storag	e, and Stability	NR; NR; under nitrogen and protected from sunlight; NR			
Radiolabel, Source, State, and Purity		NR; Aldrich Chemical Co.; Liquid; 97 mole% stabilized with mole% of dioxane Notes: further purified with aq. NaHCO3 wash, dried over sieves, distilled, degassed, then freeze dried			
Temperature		326.1 K			
System		Determinations of the vapor pressure p for a given temperature T were carried out with an apparatus and method described in previous publications.			
Standard Deviation Result	s	Temperature: ± 0.2 K , Pressure: ± 10 kPa.			
Results Details		this source measured the pressure of 1,1-dichloroethane from 326.1K to 523.4 K which are outside the environmentally relevant range			

			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured for the subject chemical substance.
	Metric 2:	Appropriateness	High	Measured data are consistent with the subject chemical substance structural features (e.g., presence of certain functional groups) or other physical/chemical properties.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	Peer-reviewed journal, however, measurements outside of environmental relevance.
	Metric 4:	Reliability/Analytical Method	Low	Measurements outside of environmental relevance.
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 Qual	ity Determ	ination	High	

 Study Citation: Li, M., J.C., Pitzer, K. S. (1956). The thermodynamic properties of 1,1-dichloroethane: Heat capacities from 14 to 294°K., heats of fusion and vaporization vapor pressure and entropy of the ideal gas. The barrier to internal rotation. Journal of the American Chemical Society 78(6):1077-1080. OECD Harmonized 			
		Template:	1
HERO ID:	9087635		
		EXTRACTION	
Parameter		Data	
Vapor Pressure		0.644 - 16.502 cm Hg	
CASRN and Test Material		75-34-3; 1,1-Dichloroethane	
Confidentiality, Type, and	Guideline	None; Experimental; None; measured using a mercury manometer	
Solvent, Reactivity, Storage, and Stability		NA; NA; NR	
Radiolabel, Source, State, and Purity		NR; Reported as commercially available; NR; purity 99.87% by fractional distillation and recrystallization 3 times Notes: NA	
Temperature 234.38 to 290.76 K		234.38 to 290.76 K	
System		mercury manometer with 1.6 cm inside diameter	
Standard Deviation Result	3	NR	
Results Details		vapor pressure = 165.02 mm Hg at 290.76K	

			EVALUATIO	N
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 Reliab	ility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, and the methodology's objective is clear.
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.
Domain 3: Other				
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Study Citation:		Li, M., J.C., Pitzer, K. S. (1956). The thermodynamic properties of 1,1-dichloroethane: Heat capacities from 14 to 294°K., heats of fusion and vaporization, vapor pressure and entropy of the ideal gas. The barrier to internal rotation. Journal of the American Chemical Society 78(6):1077-1080.						
OECD Harmonized	Vapor pressure a Vapor Pressure		o internal rotatic	n. Journal of the American Chemical Society /8(6):10//-1080.				
Template:		9087635						
HERO ID:	9087635							
			EXTRACTIO	N				
Parameter		Data						
Vapor Pressure		Not Reported						
CASRN and Test Material 75-34-3; 1,1-Dichloroethane								
Confidentiality, Type, and Guideline None; Experimental; None; measured by			vaporizing test su	bstance through a capillary tube into a bulb immersed in liquid nitrogen				
Solvent, Reactivity, Storage, and Stability		NA; NA; NR; NR	- •	· · ·				
Radiolabel, Source, State, and Purity		NR; Reported as commercially available	; NR; purity 99.87	% by fractional distillation and recrystallization 3 times Notes: NA				
Temperature		Not Reported						
System Not Reported								
Standard Deviation Results		NR						
Results Details		heat of vaporization 7409 \pm 7 cal/mole a	t 293K					
			EVALUATIO	N				
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 Reliabil	ity							
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-				
		(Method Objectivity)	-	tion, and the methodology's objective is clear.				
	Metric 4:	Reliability/Analytical Method	High	Data are obtained by accepted standard analytical methods, including, but not limited to OECD guidelines for physical-chemical properties or other developed standard.				
Domain 3: Other								
	Metric 5:	Databases	N/A	Rating of this factor is not applicable to this kind of information.				
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.				
Overall Qualit	tv Determi	nation	High					

Study Citation: OECD Harmonized	NCBI, (2020). Vapor Pressure	PubChem Compound Summary for CID	6365: 1,1-Dichlo	roethane.
Template:	vapor i ressure			
HERO ID:	10180525			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and O		None; not specified; NA		
Solvent, Reactivity, Storage	•	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		NR		
System		NR		
Standard Deviation Results	5	NR		
Results Details		Heat of vaporization 131.6 Btu/lb (73.1 o	cal/g, 3.06x10^5 J/l	<g)< td=""></g)<>
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance				
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	Medium	Data measured for a structural analogue of the subject chemical substance are consistent with what is expected for the subject chemical substance structural properties, features or behaviors.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	tv Determi	nation	High	

* Related References: Citing CAMEO chemicals, 2018.

Study Citation: OECD Harmonized	NIOSH, (2007) Vapor Pressure	. NIOSH pocket guide to chemical haza	ırds.	
Template:				
HERO ID:	192177			
_			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		182 - mm Hg		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and O	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		NR		
System		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Determi	nation	High	

Study Citation: OECD Harmonized	NIOSH, (1978) Vapor Pressure	. Occupational health guideline for 1,1-d	lichloroethane.	
Template:	vapor r ressure			
HERO ID:	8435203			
			EXTRACTIO	N
Parameter		Data		1
Vapor Pressure		182 - mm Hg		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		20C (68F)		
System		NR		
Standard Deviation Results	8	NR		
Results Details		NR		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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 Quali	ty Determi	nation	High	

* Related References: Several references listed in the reference but not attributed to specific data.

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IIST Chemistry WebBook. Ethane, 1,1-di	ichloro- (75-34-3	B). Standard Reference Database No. 69.
Template:	vapor riessure			
HERO ID:	10225173			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	Not Reported; Not Reported; Not Reported	ed	
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	und Purity	NR; NR; NR; NR		
Temperature		378 K, based on data from 363 535. K.		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization: 28.2 kJ/mol		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	y Determi	nation	High	

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

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IIST Chemistry WebBook. Ethane, 1,1-dichl	oro- (75-34-3). Sta	andard Reference Database No. 69.
Template:				
HERO ID:	10225173			
		E	XTRACTION	
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	Not Reported; Not Reported; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		293 К		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization: 31±29 kJ/mol		
		E	VALUATION	
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	y Determi	nation	Medium	

* Related References: Li, J.C.M.; Pitzerk, K.S., The thermodynamic properties of 1,1-dichloroethane: Heat capacities from 14 to 194°K., heats of fusion and vaporization, vapor pressure and entropy of the ideal gas. The barrier to internal rotation, J. Am. Chem. Soc., 1956, 78, 1077-10

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	NST Chemistry WebBook. Ethane, 1,1-di	chloro- (75-34-3	3). Standard Reference Database No. 69.
Template:	10005170			
HERO ID:	10225173			
_		_	EXTRACTIO	N
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	Not Reported; Not Reported; Not Reported	ed	
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		275 K, based on data from 234 290. K.		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization: 31.9 kJ/mol		
			EVALUATIO	N
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 Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Determi	nation	High	

* Related References: Li, J.C.M.; Pitzer, K.S., The thermodynamic properties of 1,1-dichloroethane: Heat capacities from 14 to 194°K., heats of fusion and vaporization, vapor pressure and entropy of the ideal gas. The barrier to internal rotation, J. Am. Chem. Soc., 1956, 78, 1077-10

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IIST Chemistry WebBook. Ethane, 1,1-di	ichloro- (75-34-3	3). Standard Reference Database No. 69.
Template: HERO ID:	10225173			
	10223173			AT
Parameter		Data	EXTRACTIO	N
r ai ailletei		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	Not Reported; Not Reported; Not Reported	ed	
Solvent, Reactivity, Storage	, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		228 K, based on data from 213 330. K		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization: 34.4 kJ/mol		
			EVALUATIO	N
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 Reliabili	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Determi	nation	High	

* Related References: Stull, Daniel R., Vapor Pressure of Pure Substances. Organic and Inorganic Compounds, Ind. Eng. Chem., 1947, 39, 4, 517-540

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IIST Chemistry WebBook. Ethane, 1,1-di	ichloro- (75-34-3	3). Standard Reference Database No. 69.
Template: HERO ID:	10225173			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	Not Reported; Not Reported; Not Report	ed	
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		176.18 K		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of fusion: 7.870 kJ/mol		
			EVALUATIO	N
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 Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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				
20main 5. 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 Qualit	v Determi	nation	High	

* Related References: Li, J.C.M.; Pitzer, K.S., The thermodynamic properties of 1,1-dichloroethane: heat capacities from 14 to 294 K., heats of fusion and vaporization, vapor pressure and entropy of the ideal gas. The barrier to internal rotation, J. Am. Chem. Soc., 1956, 78, 1077-1080.

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IIST Chemistry WebBook. Ethane, 1,1-di	ichloro- (75-34-3	8). Standard Reference Database No. 69.
Template:	10225172			
HERO ID:	10225173			
D (EXTRACTIO	Ň
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Buideline	Not Reported; Not Reported; Not Report	ed	
Solvent, Reactivity, Storage	, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		176.2 K		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of fusion: 7.87 kJ/mol		
			EVALUATIO	N
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 Reliabili	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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				
Domain 5. Outer	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 Qualit	v Determi	nation	High	

* Related References: Acree, William E., Thermodynamic properties of organic compounds: enthalpy of fusion and melting point temperature compilation, Thermochimica Acta, 1991, 189, 1, 37-56

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	NIST Chemistry WebBook. Ethane, 1,1-dic	chloro- (75-34-3). Sta	andard Reference Database No. 69.		
Template: HERO ID:	10225173					
HERO ID;	10223173					
Parameter		Data	EXTRACTION			
rarameter		Data				
Vapor Pressure		Not Reported				
CASRN and Test Material		75-34-3; 1,1-Dichloroethane				
Confidentiality, Type, and Guideline		Not Reported; Not Reported; Not Reported				
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR				
Temperature		20 C				
System		NR				
Standard Deviation Results	5	Not Reported				
Results Details		Enthalpy of vaporization at standard cond	itions: 30.77 kJ/mol			
			EVALUATION			
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 Reliabil	ity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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						
20	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 Qualit	ty Determi	nation	Medium			

* Related References: Majer, V.; Svoboda, V., Enthalpies of Vaporization of Organic Compounds: A Critical Review and Data Compilation, Blackwell Scientific Publications, Oxford, 1985, 300.

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IST Chemistry WebBook. Ethane, 1,1-d	ichloro- (75-34-3	3). Standard Reference Database No. 69.
Template: HERO ID:	10225173			
	10223173			N
Parameter		Data	EXTRACTIO	IN
		Dutu		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Buideline	Not Reported; Not Reported; Not Report	ted	
Solvent, Reactivity, Storage	, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; NR; NR		
Temperature		20 C		
System		Weighted average of several measurement	nts plus a correctio	n for non-ideality
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization at standard con	ditions: 30.83 ± 0.0	18 kJ/mol
			EVALUATIO	N
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 Reliabili	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

* Related References: Manion, J.A., Evaluated Enthalpies of Formation of the Stable Closed Shell C1 and C2 Chlorinated Hydrocarbons, J. Phys. Chem. Ref. Data, 2002, 31, 1, 123-172, https://doi.org/10.1063/1.1420703

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	NIST Chemistry WebBook. Ethane, 1,1-d	ichloro- (75-34-3	3). Standard Reference Database No. 69.
Template:	vapor i ressure			
HERO ID:	10225173			
			EXTRACTIO	N
Parameter		Data		•
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	Not Reported; Not Reported; Not Report	ted	
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; NR; NR		
Temperature		20 C		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization at standard con	ditions: 30.62±0.1	4 kJ/mol
Domain		Metric	EVALUATIO	
Domain 1: Substance		Metric	Rating	Comments
Domain 1: Substance	Metric 1:	B oprosontativonoss	Llich	Data are many used or estimated for the subject chemical substance
	Metric 2:	Representativeness	High N/A	Data are measured or estimated for the subject chemical substance.
	Metric 2:	Appropriateness	IN/A	Rating of this factor is not applicable to this kind of information.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

* Related References: Laynez, J.; Wadso, I., Enthalpies of vaporization of organic compounds. IX. Some halogen substituted hydrocarbons and esters, Acta Chem. Scand., 1972, 26, 3148

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	NIST Chemistry WebBook. Ethane, 1,1-d	ichloro- (75-34-3	3). Standard Reference Database No. 69.
Template: HERO ID:	10225173			
	10223173			N
Parameter		Data	EXTRACTIO	IN
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	Not Reported; Not Reported; Not Report	ted	
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; NR; NR		
Temperature		20 C		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization at standard con-	ditions: 30.6±0.1 l	kJ/mol
			EVALUATIO	N
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 Reliabili	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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				
Domain 5. Outer	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are peer-reviewed by experts in the field, are broadly available to the public for review and use.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Dotormi	nation	High	

* Related References: Laynez, José; Wadsö, Ingemar; Haug, Arne; Songstad, J.; Pilotti, Åke, Enthalpies of Vaporization of Organic Compounds. IX. Some Halogen Substituted Hydrocarbons and Esters., Acta Chem. Scand., 1972, 26, 3148-3152, https://doi.org/10.3891/acta.chem.scand.26-3148

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	NIST Chemistry WebBook. Ethane, 1,1-d	ichloro- (75-34-3	3). Standard Reference Database No. 69.
Template:	10005170			
HERO ID:	10225173			
_			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	Not Reported; Not Reported; Not Report	ed	
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		293 K		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization: 31.000 kJ/mol		
			EVALUATIO	N
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 Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Determi	nation	High	

* Related References: Li, J.C.M.; Pitzer, K.S., The thermodynamic properties of 1,1-dichloroethane: heat capacities from 14 to 294 K., heats of fusion and vaporization, vapor pressure and entropy of the ideal gas. The barrier to internal rotation, J. Am. Chem. Soc., 1956, 78, 1077-1080.

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	NIST Chemistry WebBook. Ethane, 1,1-dich	loro- (75-34-3). Sta	andard Reference Database No. 69.
Template:				
HERO ID:	10225173			
		E	EXTRACTION	
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	Not Reported; Not Reported; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		330.4 K		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization: 28.85 kJ/mol		
		I	EVALUATION	
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	y Determi	nation	Medium	

* Related References: Majer, V.; Svoboda, V., Enthalpies of Vaporization of Organic Compounds: A Critical Review and Data Compilation, Blackwell Scientific Publications, Oxford, 1985, 300

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	NST Chemistry WebBook. Ethane, 1,1-di	chloro- (75-34-3	3). Standard Reference Database No. 69.
Template: HERO ID:	10225173			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	Not Reported; Not Reported; Not Reporte	ed	
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		336 K, based on data from 326 345. K		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization: 33.5 kJ/mol		
			EVALUATIO	N
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 Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Determi	nation	High	

* Related References: Garcia-Sanchez, Fernando; Trejo, Arturo, Vapour pressure and critical constants of 1,1-dichloroethane, The Journal of Chemical Thermodynamics, 1987, 19, 4, 359-361, https://doi.org/10.1016/0021-9614(87)90118-2

Study Citation: OECD Harmonized	NIST, (2022). N Vapor Pressure	IST Chemistry WebBook. Ethane, 1,1-die	chloro- (75-34-3	3). Standard Reference Database No. 69.
Template:				
HERO ID:	10225173			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Buideline	Not Reported; Not Reported; Not Reporte	d	
Solvent, Reactivity, Storage	, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		338 K, Based on data from 323 535. K.		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Enthalpy of vaporization: 29.2 kJ/mol		
			EVALUATIO	N
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 Reliabili	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Determi	nation	High	

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

Study Citation: OECD Harmonized		ubChem: Hazardous Substance Data Ba	nk: 1,1-Dichloro	ethane, 75-34-3.
Template:	Vapor Pressure			
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		227 mm Hg		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		25°C		
System		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion 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 Qualit	t v Determi	nation	High	

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

Study Citation: OECD Harmonized Template:	RIVM, (2007). Vapor Pressure	Ecotoxicologically based environmental	risk limits for se	veral volatile aliphatic hydrocarbons. :217.
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		25930 - Pa		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Extrapolated; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		25 deg C		
System		NR		
Standard Deviation Results		NR		
Results Details		Extrapolated by the Antoine equation.		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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.

* Related References: Primary Source: Weast 1972 - 1973

Study Citation: OECD Harmonized	RIVM, (2007). Vapor Pressure	Ecotoxicologically based environmental	risk limits for se	veral volatile aliphatic hydrocarbons. :217.
Template: HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		30260 - Pa		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Extrapolated; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		25 deg C		
System		NR		
Standard Deviation Results	8	NR		
Results Details		Extrapolated by the Antoine equation.		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	ty Determi	nation	High	

* Related References: Primary Source: Boublik et al. 1973 HERO ID 4140510

Study Citation: OECD Harmonized	RIVM, (2007). Vapor Pressure	Ecotoxicologically based environmental	risk limits for se	veral volatile aliphatic hydrocarbons. :217.
Template: HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		30360 - Pa		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Extrapolated; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		25 deg C		
System		NR		
Standard Deviation Results	8	NR		
Results Details		Extrapolated by the Antoine equation.		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	ty Determi	nation	High	

* Related References: Primary Source: Stephenson and Malanowski 1987

Study Citation: OECD Harmonized	RIVM, (2007). Vapor Pressure	Ecotoxicologically based environmental	risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template: HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		29810 - Pa		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Extrapolated; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		25 deg C		
System		NR		
Standard Deviation Results		NR		
Results Details		Extrapolated by the Antoine equation.		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	y Determi	nation	High	

* Related References: Primary Source: Stull 1947 HERO ID 41570

Study Citation: OECD Harmonized Template:	RIVM, (2007). Vapor Pressure	Ecotoxicologically based environmental	risk limits for se	veral volatile aliphatic hydrocarbons. :217.
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		24274 - Pa		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		20 deg C		
System		NR		
Standard Deviation Results	8	NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determi	nation	High	

* Related References: Primary Source: Rex 1906

Study Citation: OECD Harmonized	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217. Vapor Pressure				
Template: HERO ID:	5159900				
			EXTRACTIO	N	
Parameter		Data			
Vapor Pressure		36950 - Pa			
CASRN and Test Material		75-34-3; 1,1-Dichloroethane			
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		30 deg C			
System		NR			
Standard Deviation Results	3	NR			
Results Details		Not Reported			
			EVALUATIO	N	
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 Reliabil	ity				
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	tv Determi	nation	High		

Study Citation: OECD Harmonized	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217. Vapor Pressure					
Template: HERO ID:	5159900					
			EXTRACTION			
Parameter		Data				
Vapor Pressure		30100 - Pa				
CASRN and Test Material		75-34-3; 1,1-Dichloroethane				
Confidentiality, Type, and	Guideline	None; Experimental; Not reported				
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR				
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR				
Temperature		25 deg C				
System		NR				
Standard Deviation Results	8	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 Reliabil	ity					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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			NEED TO FIX			

* Related References: Primary Source: Neely 1976 HERO ID 18866

Study Citation: OECD Harmonized Template:	RIVM, (2007). Vapor Pressure	Ecotoxicologically based environmental	risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		30100 - Pa		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	und Purity	NR; NR; NR; NR		
Temperature		25 deg C		
System		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Determi	nation	High	

* Related References: Primary Source: Dilling 1977 HERO ID 18370

Study Citation: OECD Harmonized Template:	RIVM, (2007). Vapor Pressure	Ecotoxicologically based environmental	risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		30260 - Pa		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
Temperature		25 deg C		
System		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Determi	nation	High	

* Related References: Primary Source: Boublik et al. 1984 HERO ID 194873

Study Citation:	RSC, (2019). C	hemSpider: 1,1-Dichloroethane.		
OECD Harmonized	Vapor Pressure			
Template:				
HERO ID:	5926256			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		182 mm Hg		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
Standard Deviation Results	s	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabi	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion 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 Quali	tv Determi	nation	High	

* Related References: NIOSH

Study Citation:		2018). Flammability of chemical substan	ces. :16-16 - 16-3	32.
OECD Harmonized	Vapor Pressure			
Template:	((==))(
HERO ID:	6655446			
			EXTRACTIO	N
Parameter		Data		
Vapor Pressure		= 30.5 kPa		
CASRN and Test Material		Not Reported; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	none; experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		25°C		
System		Not reported		
Standard Deviation Results	s	Not reported		
Results Details		Not reported		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 Quali	tv Determi	nation	High	

Study Citation:			sessment (OEHHA) (20	03). Public health goals for chemicals in drinking water: 1,1-dichloroethane				
OECD Harmonized	in drinking water							
	logKow	lognow						
Template: HERO ID:	5155634							
			EXTRACTION					
Parameter		Data						
$\log k_{ow}$		1.79						
CASRN and Test Material		75-34-3; 1,1-Dichloroethane						
Confidentiality, Type, and		None; calculation; NR NA; NA; NA; NA NA; NA; NA Notes: NA						
Solvent, Reactivity, Storag								
Radiolabel, Source, State,								
Temperature		NA						
System		NA						
pH		NA						
Results Details Method		NA						
Standard Deviation Results	8	1 (for kow)						
Results Details			Reported values are mean a	nd standard deviation of the values found in a handbook.				
			EVALUATION					
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				

Overall Quality Determination		Medium		
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
	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.
Domain 3: Other				
	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.
		Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biase towards a particular product or outcome.
Domain 2: Test Relia	Metric 3:		Madium	

* Related References: Citing Mackay, D; Shiu, WY; Ma, KC (1993) Illustrated handbook of physical-chemical properties and environmental fate for organic chemicals. Volume I.

Study Citation: OECD Harmonized	Elsevier, (2019) logKow). Reaxys: physical-chemical property dat	a for 1,1-dichlor	oethane. CAS Registry Number: 75-34-3
Template:	logiton			
HERO ID:	5926414			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		1.75 - 1.8		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,		NR; NR; NR; NR		
Temperature	-	Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Result	s	Not Reported		
Results Details		@ 25 C; 9 data points were reported; 4 o the range of measured at non-standard or		e reported in the range of 1.75-1.8 at standard temperature; 5 data points were outside ratures.
			EVALUATIO	N
Domain		Metric	Rating	Comments
2 official				Comments
				Comments
	Metric 1:	Representativeness	High	Data are measured or estimated for the subject chemical substance.
	Metric 1: Metric 2:	Representativeness Appropriateness	High High	
Domain 1: Substance	Metric 2:	-		Data are measured or estimated for the subject chemical substance.
Domain 1: Substance	Metric 2:	Appropriateness Reliability/Unbiased		Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical's physical/chemical properties. There is no indication that the methodology for producing the information was biased
Domain 1: Substance	Metric 2: lity Metric 3:	Appropriateness Reliability/Unbiased (Method Objectivity)	High	Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical's physical/chemical properties. There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
Domain 1: Substance	Metric 2: lity	Appropriateness Reliability/Unbiased	High	Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical's physical/chemical properties. There is no indication that the methodology for producing the information was biased
Domain 1: Substance	Metric 2: lity Metric 3:	Appropriateness Reliability/Unbiased (Method Objectivity)	High	Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical's physical/chemical properties. There is no indication that the methodology for producing the information was biased towards a particular product or outcome. Analytical method is unknown but is likely to be appropriate based on the data's inclu-
Domain 1: Substance Domain 2: Test Reliabi	Metric 2: lity Metric 3:	Appropriateness Reliability/Unbiased (Method Objectivity)	High	Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical's physical/chemical properties. There is no indication that the methodology for producing the information was biased towards a particular product or outcome. Analytical method is unknown but is likely to be appropriate based on the data's inclu-
Domain 1: Substance Domain 2: Test Reliabi Domain 3: Other	Metric 2: lity Metric 3: Metric 4:	Appropriateness Reliability/Unbiased (Method Objectivity) Reliability/Analytical Method	High Medium Medium	Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical's physical/chemical properties. There is no indication that the methodology for producing the information was biased towards a particular product or outcome. Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source. Data is from a secondary database with a references to the peer-reviewed original

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

tudy Citation:)ECD Harmonized `emplate:	Mueller, M., Kl logKow	ein, W. (1992). Comparative evaluation	of methods predic	ting water solubility for organic compounds. Chemosphere 25(6):769-782.
HERO ID:	654554			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		1.78		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and Guideline		None; Calculation; Not Reported		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State, and Purity		NR; NR; NR; NR		
Temperature		Not reported		
System		Not reported		
pH		Not reported		
Results Details Method		Not reported		
Standard Deviation Results		Not reported		
Results Details		calculated Pow-values -MedChem-Software	ware 1989	
			EVALUATIO	N
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 Reliabil	itv			
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-
		(Method Objectivity)	e	tion, 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 Qualit	v Dotormi	nation	High	

Study Citation: OECD Harmonized	NLM, (2018). I logKow	PubChem: Hazardous Substance Data Ba	nk: 1,1-Dichloro	ethane, 75-34-3.
Template: HERO ID:	5926110			
	3720110		EXTRACTIO	N
Parameter		Data	EATRACIIO	IN
		Dum		
log k _{ow}		1.79		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Temperature	•	Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	
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 Reliabili	itv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain J. Other	Metric 5:	Databases	High	Data is from a publicly available database that provides references to a peer-reviewed
				source.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	v Dotormi	nation	High	

* Related References: Hansch, C., Leo, A., D. Hoekman. Exploring QSAR - Hydrophobic, Electronic, and Steric Constants. Washington, DC: American Chemical Society, 1995, p. 4

Study Citation: OECD Harmonized	RIVM, (2007). logKow	Ecotoxicologically based environmenta	l risk limits for se	veral volatile aliphatic hydrocarbons. :217.
Template:				
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		1.92 -		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Temperature	-	NR		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
			EVALUATIO	N
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.
Demain 2. Trat Daliahil	:			
Domain 2: Test Reliabil	Metric 3:	Peliability/Unbiased	Medium	There is no indication that the methodology for mechanics the information was hims.
	wieuric 5.	Reliability/Unbiased (Method Objectivity)	wiedium	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				
Some S. Ould	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 Qualit	ty Determi	nation	High	

* Related References: Primary Source: Hansch and Leo 1979 HERO ID 9837

Study Citation: OECD Harmonized	RIVM, (2007). logKow	Ecotoxicologically based environmental	risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template:	10911011			
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		1.68 -		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		NR		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results	3	NR		
Results Details		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			6	
	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 Reliabil	ity			
20mani 2. Test Kenabii	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) 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 Qualit	tv Determi	nation	High	

* Related References: Primary Source: Bhatia and Sandler 1995

Study Citation: OECD Harmonized	RIVM, (2007). logKow	Ecotoxicologically based environmental	l risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template:	8			
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		1.89 -		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		NR		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results	3	NR		
Results Details		Infinite dilution activities.		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	ty Dotormi	nation	High	

* Related References: Primary Source: Tse and Sandler 1994

Study Citation: OECD Harmonized	RIVM, (2007). logKow	Ecotoxicologically based environmenta	al risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template: HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		1.79 -		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		NR		
System		Shake flask		
pН		NR		
Results Details Method		GC		
Standard Deviation Results	5	NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	itv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method was reported in low detail.
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 Qualit	ty Determi	nation	High	

* Related References: Primary Source Hansch et al. 1975 HERO ID 29212

Study Citation: OECD Harmonized	RIVM, (2007). logKow	Ecotoxicologically based environmental	risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template:	- 0 //			
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		1.82 -		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Temperature	-	NR		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
Domain		Metric	EVALUATIO Rating	N 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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	y Dotormi	nation	High	

* Related References: Primary Source: Bhatia and Sandler 1995

Study Citation: OECD Harmonized	U.S. EPA, (201 logKow	9). Chemistry Dashboard Information for	or 1,1-Dichloroeth	ane. 75-34-3
Template:	6			
HERO ID:	5926139			
			EXTRACTIO	N
Parameter		Data		
log k _{ow}		1.79		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Temperature	-	Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		Not Reported		
Standard Deviation Results	1	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	w Dotommi	nation	High	

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

Study Citation:	California Offic in drinking wat		ment (OEHHA) (20	03). Public health goals for chemicals in drinking water: 1,1-dichloroethane
OECD Harmonized	Water Solubilit	у		
Template:				
HERO ID:	5155634			
			EXTRACTION	
Parameter		Data		
Water Solubility		5170 mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and		None; calculation; NA		
Solvent, Reactivity, Storage, and Stability		NA; NA; NA; NA		
Radiolabel, Source, State, and Purity		NA; NA; NA; NA Notes: NA		
Temperature	5	NA		
System		NA		
pH		NA		
Results Details Method		NA		
Standard Deviation Result	S	313		
Results Details		Reported values are mean and standard de	viation of the values for	bund in a handbook.
			EVALUATION	
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 Deliahi	1:4			
Domain 2: Test Reliabi	Metric 3:	Daliability/Unbiased	Medium	
	Metric 5.	Reliability/Unbiased (Method Objectivity)	wiedium	There is no indication that the methodology for producing the information was biase 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
				The unity teal method is united in our is have been propriate based on the data is

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.

The data are from a source that is known but is missing elements required for High

Overall Quality Determin	ation	Medium	
Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
			designation such as peer-review, public availability, or the inclusion of references to original sources.

Metric 5:

Databases

Domain 3: Other

* Related References: Citing Mackay, D; Shiu, WY; Ma, KC (1993) Illustrated handbook of physical-chemical properties and environmental fate for organic chemicals. Volume I.

Study Citation: OECD Harmonized	Canada,, G.o. (Water Solubilit	2021). Fact sheet: 1,1-dichloroethane. y		
Template: HERO ID:	7309759			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5,000 - mg/L		
CASRN and Test Material		75-34-3; 1,1-dichloroethane		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR Notes: moderately so	oluble	
Temperature		room temperature		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results	8	NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased	High	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) 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				
Domain 5. Outer	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

* Related References: Citing Agency for Toxic Substances and Disease Registry (ATSDR), 1990. Toxicological Profile for 1,1- Dichloroethane. U.S. Department of Health and Human Services, Public Health Service, Georgia, USA.

Study Citation:	Chen, F.,ei, Freedr 86(2):156-165.	man, D. L., Falta, R. W., Murdoch, L.	C. (2012). Henry	's law constants of chlorinated solvents at elevated temperatures. Chemosphere		
OECD Harmonized	Water Solubility					
Template:						
HERO ID:	1739466					
			EXTRACTIO	N		
Parameter		Data				
Water Solubility		5403 - 5471 mg/L				
CASRN and Test Material		75-34-3; 1,1-Dichloroethane				
Confidentiality, Type, and Guideline		None; Experimental; Not reported				
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR				
Radiolabel, Source, State, and Purity		NR; TCI; NR; NR				
Temperature		8-75°C				
System		Sufficient amount neat liquid added to 1	60 mL bottle contai	ning 150 mL DDI water - nonaqueous phase of chemical present. Incubated 1 week		
pH		Not Reported		•		
Results Details Method		The headspace concentrations by GC. U	sing externally prep	pared standards for each compound		
Standard Deviation Results		0.40-3.85%				
Results Details		8 deg C, 5403 mg/L, 0.40%SD21 deg C mg/L, 3.85%SD	C, 5490 mg/L, 2.659	%SD35 deg C, 5265 mg/L, 2.92%SD60 deg C, 5434 mg/L, 3.47%SD75 deg C, 5471		
			EVALUATIO	N		
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 Reliabili	itv					
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-		
		(Method Objectivity)	0	tion, and the methodology's objective is clear.		
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is non-standard but is expected to be appropriate.		
Domain 3: Other						
2 chium 5. Ouior	Metric 5:	Databases	High	The information or data is from a recognized data collection/repository where data are		
		2	man	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.		
		ation				

Study Citation: OECD Harmonized	Dreher, E. L., B Water Solubility		eger, S., Pottenge	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
Template:				
HERO ID:	4293766			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5500 mg/L		
CASRN and Test Material		75-34-3; Not Reported		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	•	Not reported; Not reported; Not reported	*	
Radiolabel, Source, State,	and Purity	Not reported; Not reported; Not reported	; Not reported Note	es: Not reported
Temperature		20°C		
System		Not reported		
pH		Not reported		
Results Details Method		Not reported		
Standard Deviation Results	8	Not reported		
Results Details		Reported as 0.55 wt%		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	tv Determi	nation	High	

Study Citation: OECD Harmonized	Elsevier, (2019) Water Solubility		ta for 1,1-dichlor	oethane. CAS Registry Number: 75-34-3
Template: HERO ID:	5926414			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5060 mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		25°C		
System		Not Reported		
pН		Not reported		
Results Details Method		Reported as 0.506 g in 100 g H2O at 25 (С	
Standard Deviation Results	5	Not Reported		
Results Details		10 data points were reported in Reaxys; non-standard temperatures.	; 1 value was repo	rted at 0.506 g/100 g H2O at standard temperature; 9 data points were measured at
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion 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 Qualit	ty Determi	nation	High	

* Related References: Gross; Journal of the American Chemical Society; vol. 51; (1929); p. 2365; Ph.Ch.; vol. 6; p. 218

Study Citation: OECD Harmonized	Mueller, M., Kl Water Solubilit	· · · ·	f methods predic	ting water solubility for organic compounds. Chemosphere 25(6):769-782.
Template: HERO ID:	654554			
			EXTRACTIO	Ň
Parameter		Data		
Water Solubility		5057 mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Calculation; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		Not reported		
System		Statistical estimation in relation to partiti	on coefficients.	
pН		Not reported		
Results Details Method		Not Reported		
Standard Deviation Results	3	Not Reported		
Results Details		Reported as 5.11E-2 mol/L		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-
		(Method Objectivity)		tion, 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 Quali	ty Dotormi	nation	High	

Study Citation: OECD Harmonized	NCBI, (2020). I Water Solubility	PubChem Compound Summary for CID	6365: 1,1-Dichlo	proethane.
Template: HERO ID:	10180525	y		
IERO ID.	10100323		EXTRACTIO	N
Parameter		Data	EATRACTIO	11
Water Solubility		9700 - mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; not specified; NR		
Solvent, Reactivity, Storage	, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR Notes: NR		
Temperature		20 deg C		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results		NR		
Results Details		Reported as 0.97 wt% at 20 deg C		
Domain		M-4	EVALUATIO	
Domain Domain 1: Substance		Metric	Rating	Comments
Domain 1: Substance	Matria 1.	Domessontotivianass	Iliah	Determined an estimated for the subject download whether
	Metric 1: Metric 2:	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 Reliabili	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 analyti- cal 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				
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 Qualit	v Determi	nation	High	

* Related References: Citing Dreher, 2014.

Study Citation:		. NIOSH pocket guide to chemical hazard	ls.	
OECD Harmonized	Water Solubility	y		
Template: HERO ID:	102177			
HERO ID:	192177			
			EXTRACTIO	Ν
Parameter		Data		
Water Solubility		0.6 - g/100 ml		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		68		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results	5	NR		
Results Details		Solubility in water at 68°F reported as %	by weight (g/100	ml)
Domain		Metric	EVALUATIO	N Comments
		Metric	Rating	Comments
Domain 1: Substance	Matria 1.	Demnesentativeness	High	Determined an estimated for the artificity the middle herein
	Metric 1: Metric 2:	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	ty Determi	nation	High	

Study Citation: OECD Harmonized	NIOSH, (1978) Water Solubility	. Occupational health guideline for 1,1-di	chloroethane.	
Template:	0425202			
HERO ID:	8435203			
D		Dete	EXTRACTIO	N
Parameter		Data		
Water Solubility		< 1000 mg/L		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and C	Guideline	none; not specified; NR		
Solvent, Reactivity, Storage	e, and Stability	water; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		20C (68F)		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results	8	NR		
Results Details		Reported as less than 0.1 g/100 g water		
			EVALUATIO	N
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 Reliabil	itv			
	Metric 3:	Reliability/Unbiased	N/A	Rating of this factor is not applicable to this kind of information.
		(Method Objectivity)		
	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 Qualit	tv Determi	nation	High	

* Related References: Several references listed in the reference but not attributed to specific data.

			on of aqueous solu	bility of organic chemicals based on molecular structure. Environmental Science
	& Technology 2 Water Solubility			
Template:	Water Solubility	y		
-	654558			
Parameter		Data	EXTRACTIO	N
		Data		
Water Solubility		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and Gu	ideline	None; Not specified; Not reported		
Solvent, Reactivity, Storage, a		NR; NR; NR; NR		
Radiolabel, Source, State, and	5	NR; NR; NR; NR		
Temperature	÷	Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		$\log S = -0.321$		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	
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	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)	meanum	towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for high des- ignation 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	⁷ Determi	nation	High	

* Related References: Horvath, A.L., 1982. Halogenated Hydrocarbons., NY: Dekker

Study Citation:	Nirmalakhanda & Technology 2		n of aqueous solu	bility of organic chemicals based on molecular structure. Environmental Science
OECD Harmonized Template:	Water Solubility			
HERO ID:	654558			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		Not Reported		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Not specified; Not reported		
Solvent, Reactivity, Storage, and Stability		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
pH		Not Reported		
Results Details Method		$\log S = -0.321$		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		towards a particular product or outcome.
	Metric 4:	Reliability/Analytical Method	Medium	The analytical method is unknown but is likely to be appropriate.
Domain 3: Other				
	Metric 5:	Databases	Medium	The data are from a source that is known but is missing elements required for high des- ignation 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 Quali	tv Determi	nation	High	

* Related References: Horvath, A.L., 1982. Halogenated Hydrocarbons., NY: Dekker

Study Citation: OECD Harmonized Template:	NLM, (2018). H Water Solubility	PubChem: Hazardous Substance Data Ba	nk: 1,1-Dichloro	ethane, 75-34-3.
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5040 mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and O	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		25°C		
System		Not Reported		
pH		Not reported		
Results Details Method		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion 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 Qualit	D.4	nation	High	

* Related References: Horvath, A et al. 1999. J Phys Chem Ref Data. 128: 395-623.

Study Citation: OECD Harmonized	O'Neil, M. J. (2 Water Solubility	2013). Ethylidene chloride. 75-34-3. [1,1- y	Dichloroethane]	. :705.
Template: HERO ID:	5926374			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5000 mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and		None; Experimental; Not reported		
Solvent, Reactivity, Storage	-	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
pH		Not reported		
Results Details Method		Originally reported as soluble in 200 par	ts water	
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion 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.
	- D.4		11.1	
Overall Qualit	ty Determi	nation	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. 705.

Study Citation: OECD Harmonized	RIVM, (2007). Water Solubility	e .	l risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template:				
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5100 - mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		25 deg C		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results	8	NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	tv Determi	nation	High	

* Related References: Primary Source: Neely 1976 HERO ID 18866

Study Citation: OECD Harmonized	RIVM, (2007). Water Solubility		ll risk limits for se	veral volatile aliphatic hydrocarbons. :217.
Template:				
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		4842 - mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		25 deg C		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results	5	NR		
Results Details		Not Reported		
				A.T.
Domain		Metric	EVALUATIO Rating	Comments
Domain 1: Substance		Wieute	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.
	Metrie 2.	Appropriateness	Ingn	neastice data are consistent with the subject encinear substance structural reactions.
Domain 2: Test Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determi	nation	High	

* Related References: Primary Source: Nirmalakhandan and Speece 1988 HERO ID 68101

Study Citation: OECD Harmonized Tomplate:	RIVM, (2007). Water Solubility		l risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template: HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5075 - mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C		None; experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	und 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		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Determi	nation	High	

* Related References: Primary Source: Seidell 1940

Study Citation: OECD Harmonized Tomplate:	RIVM, (2007). Water Solubility		l risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template: HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5400 - mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C		None; experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR Notes: NR		
Temperature		30 deg C		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results		NR		
Results Details		Volumetric		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Determi	nation	High	

* Related References: Primary Source Rex 1906

Study Citation: OECD Harmonized Tomplate:	RIVM, (2007). Water Solubility		l risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template: HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5500 - mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Temperature	·	20 deg C		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results		NR		
Results Details		Volumetric		
			EVALUATIO	
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 Reliabil	itv			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	y Determi	nation	High	

* Related References: Primary Source Rex 1906

Study Citation: OECD Harmonized Template:	RIVM, (2007). Water Solubility		d risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5555 - mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Buideline	None; experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	-	NR; NR; NR; NR Notes: NR		
Temperature	2	25 deg C		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabili	ty			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	v Dotormi	nation	High	

* Related References: Primary Source: Wright and Schaffer 1932 HERO ID 6836791

Study Citation: OECD Harmonized Template:	RIVM, (2007). Water Solubility		l risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5060 - mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		25 deg C		
System		NR		
pH		NR		
Results Details Method		NR		
Standard Deviation Results	5	NR		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali	ty Determi	nation	High	

* Related References: Primary Source: Seidell 1941

Study Citation: OECD Harmonized	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217. Water Solubility					
Template:						
HERO ID:	5159900					
			EXTRACTIO	N		
Parameter		Data				
Water Solubility		5060 - mg/L				
CASRN and Test Material		75-34-3; 1,1-Dichloroethane				
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				
			EVALUATIO	N		
Domain		Metric	Rating	Comments		
Domain 1: Substance			8			
	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.		
Damain 2. Trat Daliahil	:4					
Domain 2: Test Reliabil	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for mechanics the information over himself		
	Metric 5.	(Method Objectivity)	Wiedium	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						
Boman 5. Ould	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						

* Related References: Also entered under HERO ID 5926414. Primary Source: Gross 1929

Study Citation: OECD Harmonized Template:	RIVM, (2007). Ecotoxicologically based environmental risk limits for several volatile aliphatic hydrocarbons. :217. Water Solubility							
HERO ID:	5159900							
EXTRACTION								
Parameter		Data						
Water Solubility		5495 - mg/L						
CASRN and Test Material		75-34-3; 1,1-Dichloroethane						
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						
рН		NR						
Results Details Method		NR						
Standard Deviation Results		NR						
Results Details		Not Reported						
			EVALUATIO	N				
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 Reliabil	ity							
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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: Isnard and Lambert 1989

Study Citation: OECD Harmonized	RSC, (2019). C Water Solubility	hemSpider: 1,1-Dichloroethane.		
Template: HERO ID:	5926256			
	3920230		EXTRACTIO	N
Parameter		Data	EATRACTIO	
Water Solubility		6000 mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and		None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
pН		Not reported		
Results Details Method		Not Reported		
Standard Deviation Results Not Reported		Not Reported		
Results Details		Reported as 0.6% , assumed weight perce	ent.	
			EVALUATIO	N
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 Reliabi	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion 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.

* Related References: NIOSH

Study Citation: OECD Harmonized	Rumble, J. R. (2 Water Solubility	2018). Aqueous solubility and Henry's lav	w constants of or	ganic compounds. :5-148 - 5-177.			
Template: HERO ID:	5932745						
HERO ID:	3932743			x ,			
Parameter		Data	EXTRACTIO	N			
Water Solubility		6200 mg/L					
CASRN and Test Material		75-34-3; 1,1-Dichloroethane					
Confidentiality, Type, and Guideline		None; Experimental; Not reported					
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR					
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR					
Temperature		0°C					
System		Not Reported					
pH		Not reported					
Results Details Method Or		Originally reported as 6.2 g/kg H20, con-	Originally reported as 6.2 g/kg H20, converted using CRC handbook's reported water density at 0 C.				
Standard Deviation Results	s	Not Reported	lot Reported				
Results Details		Not Reported					
			EVALUATIO	N			
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 Reliabil	lity						
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased			
		(Method Objectivity)		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 inclu- sion 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.			

Study Citation: OECD Harmonized	Rumble, J. R. (2 Water Solubility	2018). Aqueous solubility and Henry's la	w constants of or	rganic compounds. :5-148 - 5-177.			
Template:	viator boliability	,					
HERO ID:	5932745						
			EXTRACTIO	N			
Parameter		Data					
Water Solubility		5000 mg/L					
CASRN and Test Material		75-34-3; 1,1-Dichloroethane					
Confidentiality, Type, and C	Juideline	None; Experimental; Not reported					
Solvent, Reactivity, Storage		NR; NR; NR; NR					
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR					
Temperature		25°C					
System		Not Reported					
pH Not reported		Not reported					
Results Details Method		Originally reported as 5.0 g/kg H20, converted using CRC handbook's reported water density at 25 C.					
Standard Deviation Results Not Reported		Not Reported					
Results Details		Not Reported					
			EVALUATIO	N			
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 Reliabili	fv						
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased			
		(Method Objectivity)		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 inclu- sion 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 Qualit	Do4o		High				

Study Citation: OECD Harmonized	Rumble, J. R. (2 Water Solubility	2018). Aqueous solubility and Henry's la	w constants of or	rganic compounds. :5-148 - 5-177.		
Template:	Water Solubility	,				
HERO ID:	5932745					
			EXTRACTIO	N		
Parameter		Data				
Water Solubility		5000 mg/L				
CASRN and Test Material		75-34-3; 1,1-Dichloroethane				
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported				
Solvent, Reactivity, Storage		NR; NR; NR; NR				
Radiolabel, Source, State, a	-	NR; NR; NR; NR				
Temperature	·	50°C				
System Not Reported		Not Reported				
pH Not reported		Not reported				
Results Details Method		Originally reported as 5.0 g/kg H20, converted using CRC handbook's reported water density at 50 C.				
Standard Deviation Results Not Reported		Not Reported				
Results Details		Not Reported				
			EVALUATIO	N		
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 Reliabili	ity					
20mani 2. Test Rendom	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased		
		(Method Objectivity)		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 inclu- sion 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 Qualit	v Determi	nation	High			

Study Citation: OECD Harmonized Template:	U.S. EPA, (201) Water Solubility	9). Chemistry Dashboard Information fo	or 1,1-Dichloroeth	ane. 75-34-3
HERO ID:	5926139			
			EXTRACTIO	N
Parameter		Data		
Water Solubility		5040 mg/L		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		Not Reported		
System		Not Reported		
рH		Not reported		
Results Details Method		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion 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 Qualit			High	

* Related References: PhysProp. Horvath 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	Water Solubility	Water Solubility						
Template:								
HERO ID:	658886							
		EXTRACTION						
Parameter		Data						
Water Solubility		4991 - 4991 mg/L						
CASRN and Test Material		75-34-3; 1,1-Dichloroethane						
Confidentiality, Type, and Guideline		None; calculation; Not reported						
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR						
Radiolabel, Source, State, a	and Purity	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						
Standard Deviation Results		range Not reported						
Standard Deviation Results Results Details		Result reported as 0.0909-0.0909 mol%. MW of 1,1-dichloroethane is 98.96 g/mol; MW of water is 18.02 g/mol; assume density of water is 1 g/mL						

			EVALUATIO	N
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 and other physical/chemical properties.
Domain 2: Test Reliab	oility			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qual	ity Determ	ination	High	
		Con	ntinued on next p	page

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	continued from previous page	
-	-	nd solubilities of halogenated hydrocarbons in water at ambient
Water Solubility		
658886		
	EVALUATION	
Metric	Rating	Comments
-	temperatures. Environmental Science & Tech Water Solubility 658886	Wright, D. A., Sandler, S. I., Devoll, D. (1992). Infinite dilution activity coefficients a temperatures. Environmental Science & Technology 26(9):1828-1831. Water Solubility 658886 EVALUATION

Study Citation: OECD Harmonized Template:	Dreher, E. L., E Flash Point	Beutel, K. K., Myers, J. D., Lübbe, T., Krid	eger, S., Pottenge	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
HERO ID:	4293766			
			EXTRACTIO	N
Parameter		Data		
Flash Point		-12 C		
CASRN and Test Material 75-34-3; Not reported		75-34-3; 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 Note	es: Not reported
System Closed cup				
Standard Deviation Results Not reported		Not reported		
Results Details		Not reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	ty Determi	nation	High	

Study Citation:		. NIOSH pocket guide to chemical haz	ards.	
OECD Harmonized	Flash Point			
Template: HERO ID:	192177			
HERO ID:	1921//			
			EXTRACTIO	N
Parameter		Data		
Flash Point		2 - F		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and		None; Experimental; closed cup		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR Notes: NR		
System		closed cup		
Standard Deviation Results	s	NR		
Results Details		NR		
			EVALUATIO	N
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 Reliabil	1:457			
Domain 2. Test Kellabil	Metric 3:	Reliability/Unbiased	High	The methodology for producing the information is designed to answer a specific ques-
	metric J.	(Method Objectivity)	Ingn	tion, 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	Matria 5.	Detaharan	M - J:	
	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 Quali	ty Determi	nation	High	

Study Citation: OECD Harmonized	NLM, (2018). H Flash Point	PubChem: Hazardous Substance Data Ba	ank: 1,1-Dichloro	ethane, 75-34-3.
Template:	Flash Folin			
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data	EATRACTIO	
Flash Point		-10.0 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Closed cup		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results	3	Not reported		
Results Details		-10.0°C (14.0°F)		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu-
	WIGUIC 4.	Kenaomity/Anarytical Method	wiediuili	sion 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 Quali	ty Dotormi	nation	High	

* Related References: Sigma-Aldrich; Safety Data Sheet for 1,1-Dichloroethane. Product Number: 36967, Version 5.4 (Revision Date 05/27/2016)

Study Citation: OECD Harmonized	NLM, (2018). I Flash Point	PubChem: Hazardous Substance Data B	ank: 1,1-Dichloro	ethane, 75-34-3.
Template: HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
Flash Point		-17 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Closed cup		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results	8	Not reported		
Results Details		-17°C (2°F)		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Quali	ty Determi	nation	High	

* Related References: National Fire Protection Association; Fire Protection Guide to Hazardous Materials. 14TH Edition, Quincy, MA 2010, p. 325-64

Study Citation: OECD Harmonized Template:	NLM, (2018). H Flash Point	PubChem: Hazardous Substance Data Banl	k: 1,1-Dichloro	ethane, 75-34-3.
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
Flash Point		14 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and O	Guideline	None; Experimental; Open cup		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results		Not reported		
Results Details		14°C (open cup); -8.33 °C (closed cup)		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	v Determi	nation	High	

* Related References: Patty's Toxicology Volumes 1-9 5th ed. John Wiley & Sons. New York, N.Y. (2001)., p. V5 108

Study Citation: OECD Harmonized	NLM, (2018). l Flash Point	PubChem: Hazardous Substance Data E	Bank: 1,1-Dichloro	ethane, 75-34-3.
Template: HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data	LATINICTIO	
Flash Point		-5.6 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Open cup		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results	3	Not reported		
Results Details		22°F (open cup)		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Quali	ty Determi	nation	High	

* Related References: Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 1189

Study Citation:		hemSpider: 1,1-Dichloroethane.		
OECD Harmonized Template:	Flash Point			
HERO ID:	5926256			
	5720250			
Parameter		Data	EXTRACTIO	'N
r al allietel		Data		
Flash Point		-16.7 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
System	-	Not Reported		
Standard Deviation Results	5	Not reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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				
2 children of Outer	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 Quali	ty Determi	nation	High	

* Related References: NIOSH

Study Citation: OECD Harmonized	RSC, (2019). C Flash Point	hemSpider: 1,1-Dichloroethane.		
Template:	i fushi i onit			
HERO ID:	5926256			
			EXTRACTION	
Parameter		Data		
Flash Point		-10 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results	6	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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	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 Quali	ty Determi	nation	Medium	

* Related References: SynQuest

Study Citation: OECD Harmonized	RSC, (2019). C Flash Point	hemSpider: 1,1-Dichloroethane.		
Template:				
HERO ID:	5926256			
			EXTRACTION	
Parameter		Data		
Flash Point		-6 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not Reported		
Standard Deviation Results	5	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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	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 Qualit	tv Determi	nation	Medium	

* Related References: LabNetwork

Study Citation: OECD Harmonized	Rumble, J. R. (2 Flash Point	2018). Flammability of chemical substan	ces. :16-16 - 16-3	32.
Template:	Thush Tohin			
HERO ID:	6655446			
			EXTRACTIO	N
Parameter		Data		
Flash Point		-17 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not reported		
Standard Deviation Results	3	Not reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Quali	tv Determi	nation	High	

tudy Citation: DECD Harmonized	Dreher, E. L., B Autoflammabili	• • • • • • • • • •	ieger, S., Pottenge	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
Template: HERO ID:	4293766			
			EXTRACTIO	N
Parameter		Data		
Auto-flammability		458 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR		
System		Not reported		
Standard Deviation Results		Not reported		
Results Details		Not reported		
Results Value		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit			High	

Study Citation: OECD Harmonized	NCBI, (2020). Autoflammabili	PubChem database: compound summar ity	y: 1,1-dichloroethane.					
Template:								
HERO ID:	6629204							
			EXTRACTION					
Parameter		Data						
Auto-flammability		856 F						
CASRN and Test Material		75-34-3; 1,1-DCA						
Confidentiality, Type, and	Guideline	None; Experimental; Not specified						
Solvent, Reactivity, Storage		NR; NR; NR; NR						
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR						
System		Not reported						
Standard Deviation Results	8	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 Reliabil	ity							
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determi	nation	Medium					

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

Study Citation: OECD Harmonized	NCBI, (2020). Autoflammabili	PubChem database: compound summary	y: 1,1-dichloroethane.	
Template:				
HERO ID:	6629204			
			EXTRACTION	
Parameter		Data		
Auto-flammability		458 C		
CASRN and Test Material		75-34-3; 1,1-DCA		
Confidentiality, Type, and C	Guideline	None; Experimental; Not specified		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determi	nation	Medium	

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

Study Citation: OECD Harmonized	NLM, (2018). H Autoflammabili	PubChem: Hazardous Substance Data Ba	ank: 1,1-Dichloro	ethane, 75-34-3.
Template: HERO ID:	5926110	-5		
			EXTRACTIO	N
Parameter		Data		
Auto-flammability		458 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not specified		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
System		Not reported		
Standard Deviation Results		Not Reported		
Results Details		Originally reported as 856°F		
Results Value		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a publicly available database that provides references to a peer-reviewed data collection.
	Metric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
Overall Qualit	tv Determi	nation	High	

* Related References: Lewis, R.J. Sr. (ed) Sax's Dangerous Properties of Industrial Materials. 11th Edition. Wiley-Interscience, Wiley & Sons, Inc. Hoboken, NJ. 2004., p. 1189

Study Citation: OECD Harmonized	Rumble, J. R. (2 Autoflammabili	2018). Flammability of chemical substatity	nces. :16-16 - 16-3	32.
Template:				
HERO ID:	6655446			
			EXTRACTIO	N
Parameter		Data		
Auto-flammability		458 C		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; not specified; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
System		Not reported		
Standard Deviation Results	5	Not reported		
Results Details		Not reported		
Results Value		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion 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 Quali	tv Determi	nation	High	

Study Citation: OECD Harmonized	Dreher, E. L., B Viscosity	eutel, K. K., Myers, J. D., Lübbe, T., Kri	eger, S., Pottenge	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
Template: HERO ID:	4293766			
HERO ID:	4293700			
			EXTRACTIO	N
Parameter		Data		
Viscosity		0.38 x 10^-3		
CASRN and Test Material		75-34-3; Not Reported		
Confidentiality, Type, and G	uideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		Not reported; Not reported; Not reported	l; Not reported	
Radiolabel, Source, State, an	-	Not reported; Not reported; Not reported	-	es: Not reported
Temperature 20°C				
Test Conditions Not reported				
Standard Deviation Results		Not reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabili	tv			
2 chian 2. rest rendom	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 Qualit	v Dotormi	nation	High	

Study Citation: OECD Harmonized	Elsevier, (2019) Viscosity). Reaxys: physical-chemical property da	ta for 1,1-dichlor	oethane. CAS Registry Number: 75-34-3
Template:	500(114			
HERO ID:	5926414			
			EXTRACTIO	N
Parameter		Data		
Viscosity		0.465 - 0.49		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		20-25°C		
Test Conditions		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		At 20-25°C; 5 values were reported in R measured at non-standard temperatures.	eaxys; 4 values we	re reported in the range of 0.465 to 0.49 at 20-25°C; 1 value was outside this range or
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Qualit	ty Determi	nation	High	

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

Study Citation:		PubChem: Hazardous Substance Data Ba	ank: 1,1-Dichloro	ethane, 75-34-3.
OECD Harmonized	Viscosity			
Template: HERO ID:	5926110			
HERO ID:	3920110			
			EXTRACTIO	N
Parameter		Data		
Viscosity		0.464		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		25°C		
Test Conditions		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		0.464 mPa.S		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Quali	tv Determi	nation	High	

* Related References: Haynes, W.M. (Ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 6-232

Study Citation: OECD Harmonized		2018). Viscosity of liquids. :6-234 - 6-23	37.	
Template:	Viscosity			
HERO ID:	5932747			
			EXTRACTIO	Ň
Parameter		Data		
Viscosity		0.464		
CASRN and Test Material		75-34-3; 1.1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Temperature		25°C		
Test Conditions		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		0.362 cP at 50°C		
			EVALUATIO	NT .
Domain		Metric	Rating	Comments
Domain 1: Substance			8	
	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion 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 Quali	tv Determi	nation	High	

4293766						
		EXTRACTIO	N			
	Data					
	1.4164					
	75-34-3; Not Reported					
ideline	None; Experimental; None					
and Stability	Not reported; Not reported; Not reported					
d Purity	Not reported; Not reported; Not reported Notes: Not reported					
	20°C					
	Not reported					
	Not reported					
	Not reported					
	Not reported					
	Not reported					
		EVALUATIO	N			
	Metric	Rating	Comments			
		-				
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.			
V						
	Reliability/Unbiased (Method Objectivity)	Medium	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.			
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.			
	Metric 2: y Metric 3: Metric 4: Metric 5:	1.4164 75-34-3; Not Reported uideline None; Experimental; None and Stability Not reported; Not reported; Not reported ad Purity Not reported; Not reported; Not reported Not reported Not reported Metric 1: Representativeness Metric 3: Reliability/Unbiased (Method Objectivity) Method Metric 5: Databases </td <td>1.4164 75-34-3; Not Reported uideline None; Experimental; None and Stability Not reported; Not reported; Not reported hd Purity Not reported; Not reported; Not reported Not 20°C Not reported Not reported Not reported Metric 1: Representativeness Metric 2: Appropriateness N/A Metric 3: Reliability/Unbiased</td>	1.4164 75-34-3; Not Reported uideline None; Experimental; None and Stability Not reported; Not reported; Not reported hd Purity Not reported; Not reported; Not reported Not 20°C Not reported Not reported Not reported Metric 1: Representativeness Metric 2: Appropriateness N/A Metric 3: Reliability/Unbiased			

Study Citation: OECD Harmonized	Elsevier, (2019) Refractive Inde		a for 1,1-dichlor	oethane. CAS Registry Number: 75-34-3
Template:				
HERO ID:	5926414			
			EXTRACTIO	N
Parameter		Data		
Refractive Index		1.40572 - 1.42706		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		20-25°C		
System		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		20-25°C; 27 values were reported in Rea	axys; 21 values we	re reported in the range of 1.40572 to 1.42706 at 20-25°C; 6 values were outside this
		range or measured at unreported or non-s	standard temperatu	res.
Results Details Methods		Not Reported		
Parameter		Not Reported		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion 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 Quali	ty Dotormi	nation	High	

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

Study Citation: OECD Harmonized Template:	NLM, (2018). I Refractive Inde	PubChem: Hazardous Substance Data Ba x	ank: 1,1-Dichloro	ethane, 75-34-3.
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
Refractive Index		1.4167		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Temperature		20°C		
System		Not Reported		
Standard Deviation Result	s	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
Parameter		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			U	
	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 Reliabi	lity			
2 shuin 2, Tost Kendul	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion 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 Quali			High	

* Related References: Haynes, W.M. (Ed.). CRC Handbook of Chemistry and Physics. 95th Edition. CRC Press LLC, Boca Raton: FL 2014-2015, p. 6-232

Study Citation: OECD Harmonized	O'Neil, M. J. (2 Refractive Index	2013). Ethylidene chloride. 75-34-3. [1,1 x	-Dichloroethane]	. :705.
Template: HERO ID:	5926374			
			EXTRACTIO	N
Parameter		Data		
Refractive Index		1.4167		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature	-	20°C		
System		Not Reported		
Standard Deviation Results	5	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
Parameter		Not Reported		
			EVALUATIO	Ň
Domain		Metric	Rating	Comments
Domain 1: Substance			6	
	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 Reliabil	ity.			
Domani 2. Test Kelladii	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain J. Ouler	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 Quali	ty Determi	nation	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. 705.

Study Citation: OECD Harmonized	Rumble, J. R. (2 Refractive Index	2018). 1,1-Dichloroethane. :3-16.		
Template:	Refractive much	A		
HERO ID:	5331600			
			EXTRACTIO	N
Parameter		Data		
Refractive Index		1.4164		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		20°C		
System		Not Reported		
Standard Deviation Results		Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
Parameter		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain J. Outer	Metric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
		L'anouses	111511	Data is from a recognized, poor reviewed data concerton.

Overall Quality Determination

High

Study Citation:	in drinking wat		ment (OEHHA) (20	03). Public health goals for chemicals in drinking water: 1,1-dichloroethane			
OECD Harmonized	Henry's Law						
Template:							
HERO ID:	5155634						
			EXTRACTION				
Parameter		Data					
Henry's Law		0.0054 atm-m3/mol					
CASRN and Test Material		75-34-3; 1,1-Dichloroethane					
Confidentiality, Type, and C	Guideline	None; calculation; NA					
Solvent, Reactivity, Storage	e, and Stability	NA; NA; NA; NA					
Radiolabel, Source, State, a	and Purity	NA; NA; NA; NA Notes: NA					
Temperature		NA					
pH		NA					
System		NA					
Standard Deviation Results		0.0009					
Results Details		Reported values are mean and standard de	viation of the values for	ound in a handbook.			
Results Details Methods		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 substance structural features.			
Domain 2: Test Reliabil	•						
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	There is no indication that the methodology for producing the information was biase 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			

 Metric 4:
 Reliability/Analytical Method
 Medium
 The analytical method is unknown but is likely to be appropriate based on the data's inclusion in a peer-reviewed/recognized database or other secondary source.

 Domain 3: Other
 Metric 5:
 Databases
 Medium
 The data are from a source that is known but is missing elements required for High designation such as peer-review, public availability, or the inclusion of references to original sources.

 Metric 6:
 Models
 N/A
 Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

Medium

* Related References: Citing Mackay, D; Shiu, WY; Ma, KC (1993) Illustrated handbook of physical-chemical properties and environmental fate for organic chemicals. Volume I.

Study Citation: OECD Harmonized	Canada,, G.o. (2 Henry's Law	2021). Fact sheet: 1,1-dichloroethane.		
Template: HERO ID:	7309759			
			EXTRACTIO	Ň
Parameter		Data		
Henry's Law		0.005 - atm·m3 /mol		
CASRN and Test Material		75-34-3; 1,1-DICHLOROETHANE		
Confidentiality, Type, and	Guideline	none; not specified; NR		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR Notes: Rapid volatiliza	ation when dissolv	d
Temperature		NR		
pH		NR		
System		NR		
Standard Deviation Results	8	NR		
Results Details		Reported as 5x10^-3 atm·m3 /mol		
Results Details Methods		NR		
			EVALUATIO	J
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	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 Quali	ty Dotormi	nation	High	

* Related References: Citing Agency for Toxic Substances and Disease Registry (ATSDR), 1990. Toxicological Profile for 1,1- Dichloroethane. U.S. Department of Health and Human Services, Public Health Service, Georgia, USA.

Study Citation:		lman, D. L., Falta, R. W., Murdoch, L.	C. (2012). Henry	y's law constants of chlorinated solvents at elevated temperatures. Chemosphere
OECD Harmonized	86(2):156-165. Henry's Law			
Template:				
HERO ID:	1739466			
			EXTRACTIO	N
Parameter		Data		
Henry's Law		0.00249 - 0.0452 atm-m3/mol		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR		
Radiolabel, Source, State,		NR; TCI; NR; NR		
Temperature	•	8-93°C		
pH		Not Reported		
System		Modified EPICS; water-saturated solutio	ns, shaker table at	room temperature overnight before measuring the headspace concentrations by GC
Standard Deviation Results	8	17.1-21.0%		
Results Details				tm m3/mol, 2.69%SD; 38.0°C, 0.00962 atm m3/mol, 3.69%SD; 58.0°C, 0.01637 atm
Results Details Methods		93.0°C, 0.04523 atm m3/mol, 21.0 %SD		D; 90.0°C, 0.02826 atm m3/mol, 6.06%SD; 91.0°C, 0.03507 atm m3/mol, 13.1 %SD; room temperature overnight before measuring the headspace concentrations by GC,
Results Details Methods		93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solution GC-FID		room temperature overnight before measuring the headspace concentrations by GC,
Domain		93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solution	ons, shaker table at	room temperature overnight before measuring the headspace concentrations by GC,
Domain		93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solutio GC-FID Metric	ons, shaker table at EVALUATIO Rating	room temperature overnight before measuring the headspace concentrations by GC, N Comments
	Metric 1:	93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solution GC-FID Metric Representativeness	ons, shaker table at EVALUATIO Rating High	room temperature overnight before measuring the headspace concentrations by GC, N Comments Data are measured or estimated for the subject chemical substance.
Domain	Metric 1: Metric 2:	93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solutio GC-FID Metric	ons, shaker table at EVALUATIO Rating	room temperature overnight before measuring the headspace concentrations by GC, N Comments
Domain Domain 1: Substance	Metric 2:	93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solution GC-FID Metric Representativeness	ons, shaker table at EVALUATIO Rating High	room temperature overnight before measuring the headspace concentrations by GC, N Comments Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical substance structural features or
Domain Domain 1: Substance	Metric 2:	93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solution GC-FID Metric Representativeness	ons, shaker table at EVALUATIO Rating High	room temperature overnight before measuring the headspace concentrations by GC, N Comments Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical substance structural features or
Domain Domain 1: Substance	Metric 2: lity Metric 3:	93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solutio GC-FID Metric Representativeness Appropriateness Reliability/Unbiased (Method Objectivity)	EVALUATION Rating High High High	room temperature overnight before measuring the headspace concentrations by GC, N Comments Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors. The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
Domain Domain 1: Substance	Metric 2:	93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solutio GC-FID Metric Representativeness Appropriateness Reliability/Unbiased	ons, shaker table at EVALUATIO Rating High High	room temperature overnight before measuring the headspace concentrations by GC, N Comments Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors. The methodology for producing the information is designed to answer a specific ques-
Domain Domain 1: Substance Domain 2: Test Reliabil	Metric 2: lity Metric 3:	93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solutio GC-FID Metric Representativeness Appropriateness Reliability/Unbiased (Method Objectivity)	EVALUATION Rating High High High	room temperature overnight before measuring the headspace concentrations by GC, N Comments Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors. The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.
Domain	Metric 2: lity Metric 3:	93.0°C, 0.04523 atm m3/mol, 21.0 %SD Modified EPICS; water-saturated solutio GC-FID Metric Representativeness Appropriateness Reliability/Unbiased (Method Objectivity)	EVALUATION Rating High High High	room temperature overnight before measuring the headspace concentrations by GC, N Comments Data are measured or estimated for the subject chemical substance. Measured data are consistent with the subject chemical substance structural features or other physical/chemical properties or behaviors. The methodology for producing the information is designed to answer a specific question, and the methodology's objective is clear.

Overall Quality Determination

High

2(7):757-762. enry's Law 237610 237610 2010 2010 2010 2010 2010 2010 2010 2	0.6885 60°C	-	
137610 Pline I Stability	0.2390 75-34-3; 1,1-Dichloroethane None; Experimental; Not Reported NR; NR; NR; NR NR; NR; NR 25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	artitioning in closed	l systems-solid phase microextraction)
eline I Stability	0.2390 75-34-3; 1,1-Dichloroethane None; Experimental; Not Reported NR; NR; NR; NR NR; NR; NR 25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	artitioning in closed	l systems-solid phase microextraction)
l Stability	0.2390 75-34-3; 1,1-Dichloroethane None; Experimental; Not Reported NR; NR; NR; NR NR; NR; NR 25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	artitioning in closed	l systems-solid phase microextraction)
l Stability	0.2390 75-34-3; 1,1-Dichloroethane None; Experimental; Not Reported NR; NR; NR; NR NR; NR; NR 25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	-	
l Stability	 75-34-3; 1,1-Dichloroethane None; Experimental; Not Reported NR; NR; NR; NR NR; NR; NR; NR 25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C 	-	
l Stability	 75-34-3; 1,1-Dichloroethane None; Experimental; Not Reported NR; NR; NR; NR NR; NR; NR; NR 25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C 	-	
l Stability	None; Experimental; Not Reported NR; NR; NR; NR NR; NR; NR; NR 25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	-	
l Stability	NR; NR; NR; NR NR; NR; NR 25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	-	
-	NR; NR; NR; NR 25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	-	
	25°C Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	-	
	Not reported EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	-	
	EPICS-SPME technique (equilibrium p 3.2% Source also measured HLC of 0.076 at 0.6885 60°C	-	
	3.2% Source also measured HLC of 0.076 at 0.6885 60°C	-	
	Source also measured HLC of 0.076 at 0.6885 60°C	2°C, 0.1036 at 6°C,	0.1206 at 10°C 0.1869 at 18°C 0.3019 at 30°C 0.4066 at 40°C 0.5480 at 50°C and
	EPICS-SPME technique (equilibrium p	artitioning in closed	l systems-solid phase microextraction), units not stated
		EVALUATIO	N
	Metric	Rating	Comments
etric 1:	-	High	Data are measured for the subject chemical substance.
etric 2:	Appropriateness	High	Measured data are consistent with the subject chemical's physical/chemical properties.
etric 3:	Reliability/Unbiased	High	Data reported in a peer-reviewed journal article.
		e	· · · ·
etric 4:	Reliability/Analytical Method	Medium	The method referred to previous articles; units not stated.
etric 5:	Databases	High	Data is from a recognized, peer-reviewed data collection.
etric 6:	Models	N/A	Rating of this factor is not applicable to this kind of information.
e e e	tric 2: tric 3: tric 4: tric 5: tric 6:	tric 1: Representativeness tric 2: Appropriateness tric 3: Reliability/Unbiased (Method Objectivity) tric 4: Reliability/Analytical Method tric 5: Databases	MetricRatingtric 1:RepresentativenessHightric 2:AppropriatenessHightric 3:Reliability/Unbiased (Method Objectivity)Hightric 4:Reliability/Analytical MethodMediumtric 5:DatabasesHigh N/A

Study Citation: Hovorka, S., Dohnal, V. (1997). Determination of air-water partitioning of volatile halogenated hydrocarbons by the inert gas stripping r Chemical and Engineering Data 42(5):924-933.					
OECD Harmonized	Henry's Law 5441348				
Template: HERO ID:					
		EXTRACTION			
Parameter		Data			
Henry's Law		25.6 - MPa			
CASRN and Test Material		75-34-3; 1,1-Dichloroethane			
Confidentiality, Type, and Guideline		None; Experimental; Non-guideline; Inert Gas Stripping Method			
Solvent, Reactivity, Storage, and Stability		NR; NR; NR			
Radiolabel, Source, State, and Purity		NR; various suppliers; NR; 99 mol % or higher Notes: Analytical or pure grade chemical			
Temperature		293.15 K			
pH		NR			
System		Equilibrium stripping in an all-glass jacketed device with the presaturator (P) and the dilution cell (D). Constant flow of stripping gas (N2) with vigorous mixing for 2-5 hours. Equilibrium cell connected and stripping gas introduced.			
Standard Deviation Results		Relative standard errors ~1%			
Results Details		HLC defined as $\lim (x_1 > 0)$ solute fugacity/solute mole fraction in the liquid solution. Kaw = 191,000 (116-498 at 283.15-323.15 K); 25.6 MPa = 252.7 atm (15-72.3 MPa at 283.15-323.15), where Kaw = $\lim (cwl)$ solute concentrations in air / solute concentrations in water			
Results Details Methods		gas chromatograph (GC) with a flame ionization detector (FID)			

EVALUATION						
Domain		Metric	Rating	Comments		
Domain 1: Substance	e					
	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 Relia	bility					
	Metric 3:	Reliability/Unbiased (Method Objectivity)	High	The methodology for producing the information is designed to answer a specific ques- tion, 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.		

Continued on next page ...

		continued from previous page		
Study Citation:	Hovorka, S., Dohnal, V. (1997). Determination Chemical and Engineering Data 42(5):924-933		enated hydrocarbons by the inert gas stripping method. Journal of	
OECD Harmonized	Henry's Law			
Template:				
HERO ID:	5441348			
		EVALUATION		
Domain	Metric	Rating	Comments	
Overall Quali	Overall Quality Determination High			

Study Citation: OECD Harmonized	NLM, (2018). P Henry's Law	PubChem: Hazardous Substance Data Ba	ank: 1,1-Dichloro	ethane, 75-34-3.
Template:				
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
Henry's Law		0.00562 atm-m3/mol		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR		
Temperature		24°C		
рН		Not Reported		
System		Not Reported		
Standard Deviation Results	8	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
			EVALUATIO	N
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 Reliabil	ity			
Domani 2. Test Kellauli	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
	metric 5.	(Method Objectivity)	meanum	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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
Domain 5. Outer	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.
	incure 0.		1 1/ 1 1	rading of the factor is not approache to this kind of information.
Overall Qualit	ty Determi	nation	High	

* Related References: Gossett, J.M. 1987. Environ Sci Tech. 21: 202-6.

Study Citation: OECD Harmonized	RIVM, (2007). Henry's Law	Ecotoxicologically based environmental	risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template: HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Henry's Law		569.0 - Pa m3/mol		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR Notes: NR		
Temperature	•	NR		
pH		NR		
System		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
Results Details Methods		NR		
			EVALUATIO	N
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 Reliabili	itv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
		(Method Objectivity)		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.
		Models	N/A	Rating of this factor is not applicable to this kind of information.

Overall Quality Determination

High

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

Study Citation: OECD Harmonized	RIVM, (2007). H Henry's Law	Ecotoxicologically based environmenta	al risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template:	2			
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Henry's Law		466.0 - Pa m3/mol		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	and Purity	NR; NR; NR; NR Notes: NR		
Temperature		20 deg C		
pН		NR		
System		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
Results Details Methods		NR		
D i			EVALUATIO	
Domain		Metric	Rating	Comments
Domain 1: Substance	N. (¹ 1		TT' 1	
	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 Reliabil	ity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Qualit	ty Determin	nation	High	

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

Study Citation: OECD Harmonized	RIVM, (2007). H Henry's Law	Ecotoxicologically based environmenta	al risk limits for sev	veral volatile aliphatic hydrocarbons. :217.
Template:	5			
HERO ID:	5159900			
			EXTRACTIO	N
Parameter		Data		
Henry's Law		709.2 - Pa m3/mol		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and C	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State, a	nd Purity	NR; NR; NR; NR Notes: NR		
Temperature		30 deg C		
pН		NR		
System		NR		
Standard Deviation Results		NR		
Results Details		Not Reported		
Results Details Methods		NR		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			6	
	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 Reliabil	ity			
20mani 2. Test Kellabil	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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				
Domain 5. Outer	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 Qualit	y Determin	ation	High	

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

Study Citation: OECD Harmonized Template:	Rumble, J. R. (2 Henry's Law	2018). Aqueous solubility and Henry's law	w constants of or	ganic compounds. :5-148 - 5-177.	
HERO ID:	5932745				
			EXTRACTIO	N	
Parameter		Data			
Henry's Law		0.63 kPa m3/mol			
CASRN and Test Material		75-34-3; 1,1-Dichloroethane			
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported			
Solvent, Reactivity, Storage	e, and Stability	NR; NR; NR; NR			
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR			
Temperature		25°C			
pH		Not Reported			
System		Not Reported			
Standard Deviation Results	3	Not Reported			
Results Details		Reported as 0.63 kPa m3 mol-1 (converte	orted as 0.63 kPa m3 mol-1 (converted using 1 kPa = 0.00986923 atm)		
Results Details Methods		Not Reported			
			EVALUATIO	N	
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 Reliabil	ity				
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased	
		(Method Objectivity)		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 inclu- sion 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 Quali			High		

Study Citation: OECD Harmonized	U.S. EPA, (201 Henry's Law	9). Chemistry Dashboard Information for	1,1-Dichloroeth	ane. 75-34-3
Template:	5			
HERO ID:	5926139			
			EXTRACTIO	N
Parameter		Data		
Henry's Law		0.00562 atm-m3/mol		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storage		NR; NR; NR; NR		
Radiolabel, Source, State, a		NR; NR; NR; NR		
Temperature		24°C		
pH		Not Reported		
System		Not Reported		
Standard Deviation Results	3	Not Reported		
Results Details		Not Reported		
Results Details Methods		Not Reported		
			EVALUATIO	N
Domain		Metric	Rating	Comments
Domain 1: Substance			6	
	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 Reliabil	ity			
Domain 2. Test Kellaun	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased
	with 5.	(Method Objectivity)	wiculuiii	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 inclu- sion 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 Quali	tv Determi	nation	High	

* Related References: PhysProp. Gossett, JM. 1987

Study Citation: OECD Harmonized	Elsevier, (2019) Dielectric Cons		a for 1,1-dichlor	oethane. CAS Registry Number: 75-34-3
Template:				
HERO ID:	5926414			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag		NR; NR; NR; NR		
Radiolabel, Source, State,	•	NR; NR; NR; NR		
Dielectric Constant	2	9.44 - 10.9		
Temperature		20-25°C		
System		Not Reported		
Results Value		Not Reported		
Results Details		@ 20-25°C; 4 values were reported in Re range or measured at unreported or non-st		alues were reported in the range of 9.44 to 10.9 at 20-25 C; 2 values were outside this res.
			EVALUATIO	N
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 Reliabil	litv			
	Metric 3:	Reliability/Unbiased	Medium	There is no indication that the methodology for producing the information was biased towards a particular product or outcome.
	Metric 4:	(Method Objectivity) Reliability/Analytical Method	Medium	Analytical method is unknown but is likely to be appropriate based on the data's inclu- sion 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 Quali	ty Determi	nation	High	

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

Study Citation: OECD Harmonized	NLM, (2018). H Dielectric Cons	PubChem: Hazardous Substance Data Ba	nk: 1,1-Dichloro	ethane, 75-34-3.
Template:	Dielectric Colls	ant		
HERO ID:	5926110			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; 1,1-Dichloroethane		
Confidentiality, Type, and	Guideline	None; Experimental; Not Reported		
Solvent, Reactivity, Storag	e, and Stability	NR; NR; NR; NR		
Radiolabel, Source, State,	and Purity	NR; NR; NR; NR		
Dielectric Constant		10.9		
Temperature		20°C		
System		Not Reported		
Results Value		Not Reported		
Results Details		Not Reported		
			EVALUATIO	N
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 Reliabil	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 inclu- sion in a peer-reviewed/recognized database or other secondary source.
Domain 3: Other				
	Metric 5:	Databases	High	Data is from a peer-reviewed, 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 Quali	tv Determi	nation	High	

* Related References: Dreher E.B. et al; Chloroethanes and Chloroethylenes. Ullmann's Encyclopedia of Industrial Chemistry. 7th Ed. (1999-2018).

Study Citation: OECD Harmonized	Dreher, E. L., B Other Propertie	· · · · · · · · · · · · · · · · · · ·	eger, S., Pottenge	er, L. H. (2014). Chloroethanes and chloroethylenes. :1-81.
Template: HERO ID:	4293766			
			EXTRACTIO	N
Parameter		Data		
CASRN and Test Material		75-34-3; Not Reported		
Confidentiality, Type, and	Guideline	None; Experimental; Not reported		
Solvent, Reactivity, Storag	e, and Stability	Not reported; Not reported; Not reported	; Not reported	
Radiolabel, Source, State,	and Purity	Not reported; Not reported; Not reported	; Not reported Not	es: Not reported
Results Value		Heat of evaporation at 298 K: 30.8 kJ/me	ol	
Results Details		Not reported		
Results Remarks		Not reported		
			EVALUATIO	N
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 Reliabi	lity			
	Metric 3:	Reliability/Unbiased (Method Objectivity)	Medium	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 Quali			-	

ASTMAmerican Society for Testing and MaterialsATSDRAgency for Toxic Substances and Disease RegistryatmAtmospheresatm · m³/molAtmospheres - cubic meters per moleCCelsiusCASRNChemical Abstract Service registry numbercPCentipoiseCRCCRC Handbook of Chemistry and PhysicsDOEU.S. Department of EnergyECBEuropean Chemicals BureauEPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm³Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Air partition coefficientMowMolemmHgMilligrams per LitermolMolemMKSMass SpectrometryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNot Reported	Term	Definition
ATSDRAgency for Toxic Substances and Disease RegistryatmAtmospheresatm · m³/molAtmospheres - cubic meters per moleCCelsiusCASRNChemical Abstract Service registry numbercPCentipoiseCRCCRC Handbook of Chemistry and PhysicsDOEU.S. Department of EnergyECBEuropean Chemicals BureauEPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm³Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Uniform Chemical SafetyIUCLIDInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Air partition coefficientMSMass SpectrometryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNational Library of MedicineNMNot Reported		
atmAtmospheresatm · m³/molAtmospheres - cubic meters per moleCCelsiusCASRNChemical Abstract Service registry numbercPCentipoiseCRCCRC Handbook of Chemistry and PhysicsDOEU.S. Department of EnergyECBEuropean Chemicals BureauEPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm³Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Lobour CoefficientKowOctanol-Air partition coefficientKowOctanol-Air partition coefficientModeMilligrams per LitermolMolemmHgMillimeters of MercuryMSMass SpectrometryN/ANot ApplicableNLMNational Library of MedicineNRNot Reported		
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CASRNChemical Abstract Service registry numbercPCentipoiseCRCCRC Handbook of Chemistry and PhysicsDOEU.S. Department of EnergyECBEuropean Chemicals BureauEPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm ³ Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Air partition coefficientMolemmHgmolMolemmHgMilligrams per LitermolMolemtHgMillimeters of MercuryMSMass SpectrometryN/ANot ApplicableNLMNational Library of MedicineNRNot Reported		
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ECBEuropean Chemicals BureauEPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm³Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Programme on Chemical SafetyIUCLIDInternational Programme on Chemical SafetyKKelvinKoaOctanol-Air partition coefficientmg/LMilligrams per LitermolMolemmHgMillimeters of MercuryMSMass SpectrometryN/ANot ApplicableNLMNational Industrial Chemicals Notification and Assessment SchemeNLMNot Reported		
EPAEnvironmental Protection AgencyFFahrenheitGCGas Chromatographyg/cm3Grams per cubic centimeterGLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Uniform Chemical SafetyIUCLIDInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientMoleMolemmHgMilligrams per LiterMSMass SpectrometryN/ANot ApplicableNLMNational Industrial Chemicals Notification and Assessment SchemeNLMNational Library of MedicineNRNot Reported	-	
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GLPGood Laboratory PracticeHLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Programme on Chemical SafetyIUCLIDInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Water partition coefficientmg/LMilligrams per LitermolMolemmHgMillimeters of MercuryMSMass SpectrometryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNot Reported		
HLCHenry's Law ConstantHPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Programme on Chemical SafetyIUCLIDInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Water partition coefficientmg/LMilligrams per LitermolMolemmHgMillimeters of MercuryMSMass SpectrometryN/ANot ApplicableNLMNational Industrial Chemicals Notification and Assessment SchemeNLMNot Reported	e	1
HPVHigh Production VolumeHSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Programme on Chemical SafetyIUCLIDInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Water partition coefficientmg/LMilligrams per LitermolMolemmHgMillimeters of MercuryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNational Library of MedicineNRNot Reported		•
HSDBHazard Substance Data BankILOInternational Labour OrganizationIPCSInternational Programme on Chemical SafetyIUCLIDInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Water partition coefficientmg/LMilligrams per LitermolMolemmHgMillimeters of MercuryMSMass SpectrometryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNot Reported		
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IPCSInternational Programme on Chemical SafetyIUCLIDInternational Uniform Chemical Information DatabaseKKelvinKoaOctanol-Air partition coefficientKowOctanol-Water partition coefficientmg/LMilligrams per LitermolMolemmHgMillimeters of MercuryMSMass SpectrometryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNot Reported		
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MSMass SpectrometryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNational Library of MedicineNRNot Reported	•	•
MSMass SpectrometryN/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNational Library of MedicineNRNot Reported		Millimeters of Mercury
N/ANot ApplicableNICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNational Library of MedicineNRNot Reported	e	
NICNASNational Industrial Chemicals Notification and Assessment SchemeNLMNational Library of MedicineNRNot Reported		
NLMNational Library of MedicineNRNot Reported		
NR Not Reported	NLM	
OECD Organisation for Economic Co-operation and Development	OECD	*
Pa (hPa) Pascals (hectopascals; 1 hPa = 100 Pa)		
pH Negative base 10 Log of Hydrogen Ion (H+) Concentration in Aque-	. ,	
ous Solution	I	
pKa Negative base 10 Log of Acid Dissociation Constant (Ka)	pKa	
RIVM National Institute for Public Health and the Environment (Dutch: Ri-		
jksinstituut voor Volksgezondheid en Milieu)		

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

Continued on next page ... Page 191 of 192

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

... continued from previous page