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Superfund Chemical Data Matrix Query

Last Update: January 2024

This site allows you to easily query the Superfund Chemical Data Matrix (SCDM) and generate a list of the corresponding Hazard Ranking System (HRS) factor values, benchmarks, and data elements that you need.

Report URL: https://www.epa.gov/superfund/superfund%2Dchemical%2Ddata%2Dmatrix%2Dquery?substanceAuto=&c=000075%2D35%2D4&c=000123%2D91%2D1&c=000127%2D18%2D4&c=000079%2D01%2D6&f=f1&f=f3&f=f5&b=b1&b=b3&b=b6&d=d1&d=d2&d=d8&d=d3&d=d4&d=d5&d=d6&d=d7

Substance: Dichloroethylene, 1,1- [CASRN 000075-35-4]

Query Accessed: 7/9/2024

Factor Values: Ground Water Pathway
Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value
Toxicity	10
Water Solubility	2.42E+03
Distribution Coefficient	4.84E+00
Geometric Mean Solubility	--
Mobility: Liquid, Karst	1.0E+00
Mobility: Liquid, Non-Karst	1.0E+00
Mobility: Non-Liquid, Karst	1.0E+00
Mobility: Non-Liquid, Non-Karst	1.0E+00

Factor Values: Soil Exposure Component
Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value
Toxicity	10

Factor Values: Subsurface Intrusion Component
Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value
Toxicity	10
Vapor Migration Potential	25
SsI Overall Half-life (days)	1.05E+02
Radioactive Half-life (days)	--
SsI Volatile	Yes

Benchmarks: Ground Water Pathway
Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value	Unit
MCL	7.00E-03	mg/L
MCLG	7.00E-03	mg/L
Cancer Risk	--	--
Non-Cancer Risk	1.00E+00	mg/L

Benchmarks: Soil Exposure Component
Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value	Unit
Cancer Risk	--	--
Non-Cancer Risk	3.91E+03	mg/kg

Benchmarks: Subsurface Intrusion Component

Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value	Unit
Cancer Risk	--	--
Non-Cancer Risk	2.09E-01	mg/m^3

Data Elements: Toxicity

Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value	Unit	Source
RfD	5.00E-02	mg/kg/day	IRIS
RfC	2.00E-01	mg/m^3	IRIS
Slope Factor	--	--	--
Slope Factor WOE	--	--	--
IUR	--	--	--
IUR WOE	--	--	--
Oral ED_{10}	--	--	--
Oral ED_{10} WOE	--	--	--
Inhalation ED_{10}	--	--	--
Inhalation ED_{10} WOE	--	--	--
Oral LD_{50}	--	--	--
Dermal LD_{50}	--	--	--
Gas Inhalation LC_{50}	--	--	--
Dust Inhalation LC_{50}	--	--	--
Acute, Freshwater CMC	--	--	--
Acute, Saltwater CMC	--	--	--
Chronic, Freshwater CCC	--	--	--
Chronic, Saltwater CCC	--	--	--

Freshwater Ecological LC_{50}	9.00E+03	µg/L	ECOTOX
Saltwater Ecological LC_{50}	1.06E+05	µg/L	ECOTOX

Data Elements: Persistence

Dichloroethylene, 1,1- [CASRN 000075-35-4]

LAKE HALF-LIVES			
Parameter	**Value**	**Unit**	**Source**
Hydrolysis	2.70E+02	days	HSDB_EXP
Volatility	3.91E+00	days	CALC
Final Photolysis	--	--	--
Direct Photolysis	--	--	--
Indirect Photolysis	--	--	--
Unspecified Photolysis	--	--	--
Biodegradation	1.83E+02	days	HEDR
Radioactive	--	--	--
RIVER HALF-LIVES			
Parameter	**Value**	**Unit**	**Source**
Hydrolysis	2.70E+02	days	HSDB_EXP
Volatility	2.17E-01	days	CALC
Final Photolysis	--	--	--
Direct Photolysis	--	--	--
Indirect Photolysis	--	--	--
Unspecified Photolysis	--	--	--
Biodegradation	1.83E+02	days	HEDR

Radioactive	--	--	--
OTHER			
Parameter	**Value**	**Unit**	**Source**
Log K_{ow}	2.13E+00		EPI_EXP

Data Elements: SsI Degradation
Dichloroethylene, 1,1- [CASRN 000075-35-4]

HALFLIVES			
Parameter	**Value**	**Unit**	**Source**
SsI Hydrolysis	2.70E+02	days	HSDB_EXP
SsI Biodegradation	1.73E+02	days	HEDR
SsI Overall	1.05E+02	days	CALC
Radioactive	--	--	--

Data Elements: Mobility/Migration Potential
Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value	Unit	Source
Vapor Pressure	6.00E+02	Torr	PHYSPROP
Henry's Law Constant	2.61E-02	atm-m^3/mol	PHYSPROP
Water Solubility	2.42E+03	mg/L	PHYSPROP
Distribution Coefficient	4.84E+00	mL/g	CALC
Geometric Mean Solubility	--	--	--
K_{oc}	3.18E+01	mL/g	EPI_EST

Data Elements: Bioaccumulation

Dichloroethylene, 1,1- [CASRN 000075-35-4]

FOOD CHAIN			
Parameter	**Value**	**Unit**	**Source**
Freshwater BCF	--	--	--
Saltwater BCF	--	--	--
ENVIRONMENTAL			
Parameter	**Value**	**Unit**	**Source**
Freshwater BCF	--	--	--
Saltwater BCF	--	--	--
OTHER			
Parameter	**Value**	**Unit**	**Source**
Log K_{ow}	2.13E+00		EPI_EXP
Water Solubility	2.42E+03	mg/L	PHYSPROP
Geometric Mean Solubility	--	--	--

Data Elements: Physical Characteristics
Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value	Unit
Metal Containing	No	
Organic	Yes	
Air Pathway Gas	Yes	
Air Pathway Particulate	No	
SsI Volatile	Yes	
Radionuclide	No	
Radioactive Element	No	
Mutagen	No	
Molecular Weight	9.69E+01	
Density	1.21E+00	g/mL @ 20.0 °C

Data Elements: Other Data
Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value	Unit
Melting Point	-1.23E+02	°C
Boiling Point	3.16E+01	°C
Formula	C2H2Cl2	
K_{oc} Equation	2	

Data Elements: Class Information

Dichloroethylene, 1,1- [CASRN 000075-35-4]

Parameter	Value
Parent Substance	--

Substance: Dioxane, 1,4- [CASRN 000123-91-1]

Query Accessed: 7/9/2024

Factor Values: Ground Water Pathway
Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value
Toxicity	100
Water Solubility	1.00E+06
Distribution Coefficient	4.00E-01
Geometric Mean Solubility	--
Mobility: Liquid, Karst	1.0E+00
Mobility: Liquid, Non-Karst	1.0E+00
Mobility: Non-Liquid, Karst	1.0E+00
Mobility: Non-Liquid, Non-Karst	1.0E+00

Factor Values: Soil Exposure Component
Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value
Toxicity	100

Factor Values: Subsurface Intrusion Component
Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value
Toxicity	100
Vapor Migration Potential	15
SsI Overall Half-life (days)	1.80E+02
Radioactive Half-life (days)	--
SsI Volatile	Yes

Benchmarks: Ground Water Pathway
Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value	Unit
MCL	--	--
MCLG	--	--
Cancer Risk	7.79E-04	mg/L
Non-Cancer Risk	6.02E-01	mg/L

Benchmarks: Soil Exposure Component
Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value	Unit
Cancer Risk	6.95E+00	mg/kg
Non-Cancer Risk	2.35E+03	mg/kg

Benchmarks: Subsurface Intrusion Component

Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value	Unit
Cancer Risk	5.62E-04	mg/m^3
Non-Cancer Risk	3.13E-02	mg/m^3

Data Elements: Toxicity

Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value	Unit	Source
RfD	3.00E-02	mg/kg/day	IRIS
RfC	3.00E-02	mg/m^3	IRIS
Slope Factor	1.00E-01	$(mg/kg/day)^{-1}$	IRIS
Slope Factor WOE	B		IRIS
IUR	5.00E-06	$(\mu g/m^3)^{-1}$	IRIS
IUR WOE	B		IRIS
Oral ED_{10}	2.90E+01	mg/kg/day	EPA_ED10
Oral ED_{10} WOE	B2		EPA_ED10
Inhalation ED_{10}	2.90E+01	mg/kg/day	EPA_ED10
Inhalation ED_{10} WOE	B2		EPA_ED10
Oral LD_{50}	2.06E+03	mg/kg	ACGIH
Dermal LD_{50}	--	--	--
Gas Inhalation LC_{50}	1.43E+04	ppm	ACGIH
Dust Inhalation LC_{50}	5.13E+01	mg/L	ACGIH
Acute, Freshwater CMC	--	--	--
Acute, Saltwater CMC	--	--	--
Chronic, Freshwater CCC	--	--	--
Chronic, Saltwater CCC	--	--	--

Freshwater Ecological LC_{50}	1.80E+06	µg/L	ECOTOX
Saltwater Ecological LC_{50}	6.70E+06	µg/L	ECOTOX

Data Elements: Persistence

Dioxane, 1,4- [CASRN 000123-91-1]

LAKE HALF-LIVES			
Parameter	**Value**	**Unit**	**Source**
Hydrolysis	--	--	--
Volatility	5.57E+01	days	CALC
Final Photolysis	3.33E+03	days	CALC
Direct Photolysis	--	days	--
Indirect Photolysis	3.33E+03	days	HEDR
Unspecified Photolysis	--	days	--
Biodegradation	1.80E+02	days	HEDR
Radioactive	--	--	--
RIVER HALF-LIVES			
Parameter	**Value**	**Unit**	**Source**
Hydrolysis	--	--	--
Volatility	1.89E+01	days	CALC
Final Photolysis	3.33E+03	days	CALC
Direct Photolysis	--	days	--
Indirect Photolysis	3.33E+03	days	HEDR
Unspecified Photolysis	--	days	--
Biodegradation	1.80E+02	days	HEDR

Radioactive	--	--	--
OTHER			
Parameter	**Value**	**Unit**	**Source**
Log K_{ow}	2.70E-01		EPI_EXP

Data Elements: SsI Degradation
Dioxane, 1,4- [CASRN 000123-91-1]

HALFLIVES			
Parameter	**Value**	**Unit**	**Source**
SsI Hydrolysis	--	--	--
SsI Biodegradation	1.80E+02	days	HEDR
SsI Overall	1.80E+02	days	CALC
Radioactive	--	--	--

Data Elements: Mobility/Migration Potential

Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value	Unit	Source
Vapor Pressure	3.81E+01	Torr	PHYSPROP
Henry's Law Constant	4.80E-06	atm-m^3/mol	PHYSPROP
Water Solubility	1.00E+06	mg/L	PHYSPROP
Distribution Coefficient	4.00E-01	mL/g	CALC
Geometric Mean Solubility	--	--	--
K_{oc}	2.63E+00	mL/g	EPI_EST

Data Elements: Bioaccumulation

Dioxane, 1,4- [CASRN 000123-91-1]

FOOD CHAIN			
Parameter	**Value**	**Unit**	**Source**
Freshwater BCF	--	--	--
Saltwater BCF	--	--	--
ENVIRONMENTAL			
Parameter	**Value**	**Unit**	**Source**
Freshwater BCF	--	--	--
Saltwater BCF	--	--	--
OTHER			
Parameter	**Value**	**Unit**	**Source**
Log K_{ow}	2.70E-01		EPI_EXP
Water Solubility	1.00E+06	mg/L	PHYSPROP
Geometric Mean Solubility	--	--	--

Data Elements: Physical Characteristics
Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value	Unit
Metal Containing	No	
Organic	Yes	
Air Pathway Gas	No	
Air Pathway Particulate	Yes	
SsI Volatile	Yes	
Radionuclide	No	
Radioactive Element	No	
Mutagen	No	
Molecular Weight	8.81E+01	
Density	1.03E+00	g/mL @ 20.0 °C

Data Elements: Other Data
Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value	Unit
Melting Point	1.18E+01	°C
Boiling Point	1.02E+02	°C
Formula	C4H8O2	
K_{oc} Equation	1	

Data Elements: Class Information

Dioxane, 1,4- [CASRN 000123-91-1]

Parameter	Value
Parent Substance	--

Substance: Tetrachloroethylene [CASRN 000127-18-4]

Query Accessed: 7/9/2024

Factor Values: Ground Water Pathway
Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value
Toxicity	100
Water Solubility	2.06E+02
Distribution Coefficient	1.44E+01
Geometric Mean Solubility	--
Mobility: Liquid, Karst	1.0E+00
Mobility: Liquid, Non-Karst	1.0E-02
Mobility: Non-Liquid, Karst	1.0E+00
Mobility: Non-Liquid, Non-Karst	1.0E-02

Factor Values: Soil Exposure Component
Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value
Toxicity	100

Factor Values: Subsurface Intrusion Component
Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value
Toxicity	100
Vapor Migration Potential	25
SsI Overall Half-life (days)	1.54E+02
Radioactive Half-life (days)	--
SsI Volatile	Yes

Benchmarks: Ground Water Pathway
Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value	Unit
MCL	5.00E-03	mg/L
MCLG	--	--
Cancer Risk	3.71E-02	mg/L
Non-Cancer Risk	1.20E-01	mg/L

Benchmarks: Soil Exposure Component
Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value	Unit
Cancer Risk	3.31E+02	mg/kg
Non-Cancer Risk	4.69E+02	mg/kg

Benchmarks: Subsurface Intrusion Component

Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value	Unit
Cancer Risk	1.08E-02	mg/m^3
Non-Cancer Risk	4.17E-02	mg/m^3

Data Elements: Toxicity

Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value	Unit	Source
RfD	6.00E-03	mg/kg/day	IRIS
RfC	4.00E-02	mg/m^3	IRIS
Slope Factor	2.10E-03	$(mg/kg/day)^{-1}$	IRIS
Slope Factor WOE	B		IRIS
IUR	2.60E-07	$(\mu g/m^3)^{-1}$	IRIS
IUR WOE	C		IRIS
Oral ED_{10}	--	--	--
Oral ED_{10} WOE	--	--	--
Inhalation ED_{10}	--	--	--
Inhalation ED_{10} WOE	--	--	--
Oral LD_{50}	--	--	--
Dermal LD_{50}	--	--	--
Gas Inhalation LC_{50}	--	--	--
Dust Inhalation LC_{50}	--	--	--
Acute, Freshwater CMC	--	--	--
Acute, Saltwater CMC	--	--	--
Chronic, Freshwater CCC	--	--	--
Chronic, Saltwater CCC	--	--	--

Freshwater Ecological LC_{50}	1.60E+03	µg/L	ECOTOX
Saltwater Ecological LC_{50}	3.32E+02	µg/L	ECOTOX

Data Elements: Persistence

Tetrachloroethylene [CASRN 000127-18-4]

LAKE HALF-LIVES			
Parameter	**Value**	**Unit**	**Source**
Hydrolysis	2.70E+02	days	HSDB_EXP
Volatility	5.12E+00	days	CALC
Final Photolysis	--	--	--
Direct Photolysis	--	--	--
Indirect Photolysis	--	--	--
Unspecified Photolysis	--	--	--
Biodegradation	3.60E+02	days	HEDR
Radioactive	--	--	--
RIVER HALF-LIVES			
Parameter	**Value**	**Unit**	**Source**
Hydrolysis	2.70E+02	days	HSDB_EXP
Volatility	2.87E-01	days	CALC
Final Photolysis	--	--	--
Direct Photolysis	--	--	--
Indirect Photolysis	--	--	--
Unspecified Photolysis	--	--	--
Biodegradation	3.60E+02	days	HEDR

Radioactive	--	--	--
OTHER			
Parameter	**Value**	**Unit**	**Source**
Log K_{ow}	3.40E+00		EPI_EXP

Data Elements: SsI Degradation
Tetrachloroethylene [CASRN 000127-18-4]

HALFLIVES			
Parameter	**Value**	**Unit**	**Source**
SsI Hydrolysis	2.70E+02	days	HSDB_EXP
SsI Biodegradation	3.60E+02	days	HEDR
SsI Overall	1.54E+02	days	CALC
Radioactive	--	--	--

Data Elements: Mobility/Migration Potential
Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value	Unit	Source
Vapor Pressure	1.85E+01	Torr	PHYSPROP
Henry's Law Constant	1.77E-02	atm-m^3/mol	PHYSPROP
Water Solubility	2.06E+02	mg/L	PHYSPROP
Distribution Coefficient	1.44E+01	mL/g	CALC
Geometric Mean Solubility	--	--	--
K_{oc}	9.49E+01	mL/g	EPI_EST

Data Elements: Bioaccumulation

Tetrachloroethylene [CASRN 000127-18-4]

FOOD CHAIN			
Parameter	**Value**	**Unit**	**Source**
Freshwater BCF	4.90E+01		ECOTOX
Saltwater BCF	4.00E+02		ECOTOX
ENVIRONMENTAL			
Parameter	**Value**	**Unit**	**Source**
Freshwater BCF	4.90E+01		ECOTOX
Saltwater BCF	4.00E+02		ECOTOX
OTHER			
Parameter	**Value**	**Unit**	**Source**
Log K_{ow}	3.40E+00		EPI_EXP
Water Solubility	2.06E+02	mg/L	PHYSPROP
Geometric Mean Solubility	--	--	--

Data Elements: Physical Characteristics
Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value	Unit
Metal Containing	No	
Organic	Yes	
Air Pathway Gas	Yes	
Air Pathway Particulate	No	
SsI Volatile	Yes	
Radionuclide	No	
Radioactive Element	No	
Mutagen	No	
Molecular Weight	1.66E+02	
Density	1.62E+00	g/mL @ 20.0 °C

Data Elements: Other Data
Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value	Unit
Melting Point	-2.23E+01	°C
Boiling Point	1.21E+02	°C
Formula	C2Cl4	
K_{oc} Equation	2	

Data Elements: Class Information

Tetrachloroethylene [CASRN 000127-18-4]

Parameter	Value
Parent Substance	--

Substance: Trichloroethylene [CASRN 000079-01-6]

Query Accessed: 7/9/2024

Factor Values: Ground Water Pathway
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value
Toxicity	1000
Water Solubility	1.28E+03
Distribution Coefficient	9.23E+00
Geometric Mean Solubility	--
Mobility: Liquid, Karst	1.0E+00
Mobility: Liquid, Non-Karst	1.0E+00
Mobility: Non-Liquid, Karst	1.0E+00
Mobility: Non-Liquid, Non-Karst	1.0E+00

Factor Values: Soil Exposure Component
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value
Toxicity	1000

Factor Values: Subsurface Intrusion Component
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value
Toxicity	1000
Vapor Migration Potential	25
SsI Overall Half-life (days)	1.71E+02
Radioactive Half-life (days)	--
SsI Volatile	Yes

Benchmarks: Ground Water Pathway
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value	Unit
MCL	5.00E-03	mg/L
MCLG	--	--
Cancer Risk	1.19E-03	mg/L
Non-Cancer Risk	1.00E-02	mg/L

Benchmarks: Soil Exposure Component
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value	Unit
Cancer Risk	8.81E+00	mg/kg
Non-Cancer Risk	3.91E+01	mg/kg

Benchmarks: Subsurface Intrusion Component
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value	Unit
Cancer Risk	4.78E-04	mg/m^3
Non-Cancer Risk	2.09E-03	mg/m^3

Data Elements: Toxicity
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value	Unit	Source
RfD	5.00E-04	mg/kg/day	IRIS
RfC	2.00E-03	mg/m^3	IRIS
Slope Factor	4.60E-02	$(mg/kg/day)^{-1}$	IRIS
Slope Factor WOE	A		IRIS
IUR	4.10E-06	$(\mu g/m^3)^{-1}$	IRIS
IUR WOE	A		IRIS
Oral ED_{10}	--	--	--
Oral ED_{10} WOE	--	--	--
Inhalation ED_{10}	--	--	--
Inhalation ED_{10} WOE	--	--	--
Oral LD_{50}	--	--	--
Dermal LD_{50}	--	--	--
Gas Inhalation LC_{50}	--	--	--
Dust Inhalation LC_{50}	--	--	--
Acute, Freshwater CMC	--	--	--
Acute, Saltwater CMC	--	--	--
Chronic, Freshwater CCC	--	--	--
Chronic, Saltwater CCC	--	--	--

Freshwater Ecological LC_{50}	1.90E+03	µg/L	ECOTOX
Saltwater Ecological LC_{50}	1.20E+04	µg/L	ECOTOX

Data Elements: Persistence

Trichloroethylene [CASRN 000079-01-6]

LAKE HALF-LIVES			
Parameter	**Value**	**Unit**	**Source**
Hydrolysis	3.26E+02	days	HEDR
Volatility	4.57E+00	days	CALC
Final Photolysis	3.21E+02	days	CALC
Direct Photolysis	--	days	--
Indirect Photolysis	3.21E+02	days	HSDB_EXP
Unspecified Photolysis	--	days	--
Biodegradation	3.65E+02	days	HEDR
Radioactive	--	--	--
RIVER HALF-LIVES			
Parameter	**Value**	**Unit**	**Source**
Hydrolysis	3.26E+02	days	HEDR
Volatility	2.60E-01	days	CALC
Final Photolysis	3.21E+02	days	CALC
Direct Photolysis	--	days	--
Indirect Photolysis	3.21E+02	days	HSDB_EXP
Unspecified Photolysis	--	days	--
Biodegradation	3.65E+02	days	HEDR

Radioactive	--	--	--
OTHER			
Parameter	**Value**	**Unit**	**Source**
Log K_{ow}	2.42E+00		EPI_EXP

Data Elements: SsI Degradation
Trichloroethylene [CASRN 000079-01-6]

HALFLIVES			
Parameter	**Value**	**Unit**	**Source**
SsI Hydrolysis	3.26E+02	days	HEDR
SsI Biodegradation	3.60E+02	days	HEDR
SsI Overall	1.71E+02	days	CALC
Radioactive	--	--	--

Data Elements: Mobility/Migration Potential
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value	Unit	Source
Vapor Pressure	6.90E+01	Torr	PHYSPROP
Henry's Law Constant	9.85E-03	atm-m^3/mol	PHYSPROP
Water Solubility	1.28E+03	mg/L	PHYSPROP
Distribution Coefficient	9.23E+00	mL/g	CALC
Geometric Mean Solubility	--	--	--
K_{oc}	6.07E+01	mL/g	EPI_EST

Data Elements: Bioaccumulation

Trichloroethylene [CASRN 000079-01-6]

FOOD CHAIN			
Parameter	**Value**	**Unit**	**Source**
Freshwater BCF	1.70E+01		ECOTOX
Saltwater BCF	--	--	--
ENVIRONMENTAL			
Parameter	**Value**	**Unit**	**Source**
Freshwater BCF	1.70E+01		ECOTOX
Saltwater BCF	--	--	--
OTHER			
Parameter	**Value**	**Unit**	**Source**
Log K_{ow}	2.42E+00		EPI_EXP
Water Solubility	1.28E+03	mg/L	PHYSPROP
Geometric Mean Solubility	--	--	--

Data Elements: Physical Characteristics
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value	Unit
Metal Containing	No	
Organic	Yes	
Air Pathway Gas	Yes	
Air Pathway Particulate	No	
SsI Volatile	Yes	
Radionuclide	No	
Radioactive Element	No	
Mutagen	Yes	
Molecular Weight	1.31E+02	
Density	1.46E+00	g/mL @ 20.0 °C

Data Elements: Other Data
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value	Unit
Melting Point	-8.47E+01	°C
Boiling Point	8.72E+01	°C
Formula	C2HCl3	
K_{oc} Equation	1	

Data Elements: Class Information
Trichloroethylene [CASRN 000079-01-6]

Parameter	Value
Parent Substance	--

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