

Bis(2-chloroethyl) ether

Other names:

- 1,1'-Oxybis(2-chloroethane)
- 1,5-Dichloro-3-oxapentane
- 1-Chloro-2-(«beta»-Chloroethoxy)ethane
- 1-Chloro-2-(Â«betaÂ»-Chloroethoxy)ethane
- 1-chloro-2-(2-chloroethoxy)ethane
- 2,2'-Dichloorethylether
- 2,2'-Dichlor-diaethylaether
- 2,2'-Dichlorethyl ether
- 2,2'-Dichlorodiethyl ether
- 2,2'-Dichlorodiethyl oxide
- 2,2'-Dichloroethyl ether
- 2,2'-Dicloroetiletere
- 2-Chloroethyl ether
- BCEE
- Beta,beta'-dichloroethyl ether
- Bis(chloro-2-ethyl) oxide
- Bis(«beta»-chloroethyl) ether
- Bis(Â«betaÂ»-chloroethyl) ether
- Chlorex
- Chloroethyl ether
- Clorex
- DCEE
- Di(2-chloroethyl) ether
- Di(«beta»-chloroethyl) ether
- Di(Â«betaÂ»-chloroethyl) ether
- Dichloroether
- Dichloroethyl ether
- Dichloroethyl oxide
- Diethylene glycol dichloride
- Dwuchlorodwuetylowy eter
- ENT 4,504
- Ethane, 1,1'-oxybis[2-chloro-
- Ether dichlore
- Ether, bis(2-chloroethyl)
- Ether, bis(chloroethyl)
- Khloreks
- NSC 406647
- Oxyde de chlorethyle
- Rcra waste number U025
- UN 1916

s-Dichloroethyl ether
sym-Dichloroethyl ether
«beta», «beta»'-Dichlorodiethyl ether
«beta», «beta»'-Dichloroethyl ether
Â«betaÂ», Â«betaÂ»'-Dichlorodiethyl ether
Â«betaÂ», Â«betaÂ»'-Dichloroethyl ether
Inchi: InChI=1S/C4H8Cl2O/c5-1-3-7-4-2-6/h1-4H2
InchiKey: ZNSMNVMLTJELDZ-UHFFFAOYSA-N
Formula: C4H8Cl2O
SMILES: ClCCOCCl
Mol. weight [g/mol]: 143.01
CAS: 111-44-4

Physical Properties

Property code	Value	Unit	Source
gf	-146.06	kJ/mol	Joback Method
hf	-289.59	kJ/mol	Joback Method
hfus	15.70	kJ/mol	Joback Method
hvap	35.68	kJ/mol	Joback Method
log10ws	-1.12		Aqueous Solubility Prediction Method
logp	1.481		Crippen Method
mcvol	97.570	ml/mol	McGowan Method
pc	3488.88	kPa	Joback Method
rinpol	984.00		NIST Webbook
rinpol	951.52		NIST Webbook
rinpol	948.00		NIST Webbook
rinpol	984.00		NIST Webbook
rinpol	954.00		NIST Webbook
rinpol	989.00		NIST Webbook
rinpol	954.00		NIST Webbook
rinpol	948.00		NIST Webbook
rinpol	956.00		NIST Webbook
rinpol	948.00		NIST Webbook
rinpol	156.20		NIST Webbook
rinpol	945.90		NIST Webbook
rinpol	156.20		NIST Webbook
ripol	1536.00		NIST Webbook
ripol	1536.00		NIST Webbook
ripol	1536.00		NIST Webbook

tb	452.25	K	NIST Webbook
tb	451.80 ± 0.40	K	NIST Webbook
tb	451.00 ± 2.00	K	NIST Webbook
tb	451.20	K	NIST Webbook
tb	451.00	K	NIST Webbook
tc	570.40	K	Joback Method
tf	227.05	K	NIST Webbook
tf	223.52	K	Aqueous Solubility Prediction Method
tf	226.25 ± 0.50	K	NIST Webbook
vc	0.376	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	188.71	J/mol×K	509.67	Joback Method
cpg	175.62	J/mol×K	448.93	Joback Method
cpg	182.28	J/mol×K	479.30	Joback Method
cpg	200.87	J/mol×K	570.40	Joback Method
cpg	194.90	J/mol×K	540.04	Joback Method
cpg	161.62	J/mol×K	388.20	Joback Method
cpg	168.74	J/mol×K	418.57	Joback Method
cpl	253.00	J/mol×K	295.00	NIST Webbook
cpl	207.81	J/mol×K	293.15	NIST Webbook
dvisc	0.0017353	Paxs	245.46	Joback Method
dvisc	0.0010643	Paxs	274.01	Joback Method
dvisc	0.0007158	Paxs	302.56	Joback Method
dvisc	0.0005155	Paxs	331.10	Joback Method
dvisc	0.0003911	Paxs	359.65	Joback Method
dvisc	0.0032180	Paxs	216.91	Joback Method
dvisc	0.0003090	Paxs	388.20	Joback Method
hfust	8.38	kJ/mol	226.50	NIST Webbook
hfust	8.39	kJ/mol	226.50	NIST Webbook
hfust	8.39	kJ/mol	226.50	NIST Webbook
hvapt	45.24	kJ/mol	273.00	NIST Webbook
hvapt	49.80	kJ/mol	374.50	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	340.20	K	2.00	NIST Webbook

Sources

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C111444&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Joback Method: https://en.wikipedia.org/wiki/Joback_method

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

McGowan Method: <http://link.springer.com/article/10.1007/BF02311772>

Legend

cpg:	Ideal gas heat capacity
cpl:	Liquid phase heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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