

2,2-DI-(2'-CHLOROETHOXY)-ETHANE

Other names:	1,1'-(Ethylidene)bis(oxy)bis(2-chloroethane) 1,1-Bis(2-chloroethoxy)ethane Di(2-chloroethyl)acetal Ethane, 1,1'-(ethylidene)bis(oxy)bis(2-chloro- Ethane,-1,1-di(2-chloroehtoxy) bis(2-chloroethyl)acetaldehyde acetal
Inchi:	InChI=1S/C6H12Cl2O2/c1-6(9-4-2-7)10-5-3-8/h6H,2-5H2,1H3
InchiKey:	KHNOWHUSVXGGLG-UHFFFAOYSA-N
Formula:	C6H12Cl2O2
SMILES:	CC(OCCCl)OCCCl
Mol. weight [g/mol]:	187.07
CAS:	14689-97-5

Physical Properties

Property code	Value	Unit	Source
hf	-519.74	kJ/mol	Cheméo Relay (1.0)
hfus	18.54	kJ/mol	Joback Method
hvap	52.50	kJ/mol	Cheméo Relay (1.0)
ie	10.16	eV	Cheméo Relay (1.0)
log10ws	-1.48		Cheméo Relay (1.0)
logp	1.843		Crippen Method
mcvol	131.620	ml/mol	McGowan Method
pc	2787.66	kPa	Joback Method
tb	460.83	K	Cheméo Relay (1.0)
tc	644.34	K	Cheméo Relay (1.0)
tf	217.66	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	303.39	J/mol×K	608.69	Joback Method
cpg	311.76	J/mol×K	639.24	Joback Method
cpg	266.52	J/mol×K	486.49	Joback Method
cpg	276.23	J/mol×K	517.04	Joback Method

cpg	285.62	J/mol×K	547.59	Joback Method
cpg	294.67	J/mol×K	578.14	Joback Method
cpg	256.50	J/mol×K	455.94	Joback Method
dvisc	0.0009509	Pa×s	316.43	Joback Method
dvisc	0.0017107	Pa×s	281.56	Joback Method
dvisc	0.0036333	Pa×s	246.68	Joback Method
dvisc	0.0005940	Pa×s	351.31	Joback Method
dvisc	0.0004039	Pa×s	386.19	Joback Method
dvisc	0.0002928	Pa×s	421.06	Joback Method
dvisc	0.0002230	Pa×s	455.94	Joback Method
hvapt	59.40	kJ/mol	407.50	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.24851e+01
Coeff. B	-3.97012e+03
Coeff. C	-3.61200e+01
Temperature range (K), min.	329.00
Temperature range (K), max.	589.55

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14689975&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point

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