

Bis(chloromethyl)ether

Inchi:	InChI=1S/C2H4Cl2O/c3-1-5-2-4/h1-2H2
InchiKey:	HRQGCQVOJVTVLU-UHFFFAOYSA-N
Formula:	C2H4Cl2O
SMILES:	CICOCCI
Mol. weight [g/mol]:	114.96

Physical Properties

Property code	Value	Unit	Source
gf	-162.90	kJ/mol	Joback Method
hf	-248.31	kJ/mol	Joback Method
hfus	10.52	kJ/mol	Joback Method
hvap	31.23	kJ/mol	Joback Method
log10ws	-1.04		Crippen Method
logp	1.396		Crippen Method
mcvol	69.390	ml/mol	McGowan Method
pc	4438.52	kPa	Joback Method
rinpol	699.00		NIST Webbook
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tb	342.44	K	Joback Method
tc	525.83	K	Joback Method
tf	194.37	K	Joback Method
vc	0.264	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	99.02	J/molxK	342.44	Joback Method
cpg	102.82	J/molxK	373.00	Joback Method
cpg	106.55	J/molxK	403.57	Joback Method
cpg	110.18	J/molxK	434.13	Joback Method
cpg	113.74	J/molxK	464.70	Joback Method
cpg	117.20	J/molxK	495.26	Joback Method
cpg	120.57	J/molxK	525.83	Joback Method
dvisc	0.0027056	Paxs	194.37	Joback Method

dvisc	0.0015478	Paxs	219.05	Joback Method
dvisc	0.0009915	Paxs	243.73	Joback Method
dvisc	0.0006894	Paxs	268.40	Joback Method
dvisc	0.0005095	Paxs	293.08	Joback Method
dvisc	0.0003947	Paxs	317.76	Joback Method
dvisc	0.0003172	Paxs	342.44	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U226615&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	Ideal gas 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
hvap:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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