

«beta»-Methoxyethoxymethyl chloride

Other names:	2-Methoxyethoxymethyl chloride Ethane, 1-(chloromethoxy)-2-methoxy- 1-chloro-2,5-dioxahexane
Inchi:	InChI=1S/C4H9ClO2/c1-6-2-3-7-4-5/h2-4H2,1H3
InchiKey:	BIAAQBNMRITRDV-UHFFFAOYSA-N
Formula:	C4H9ClO2
SMILES:	COCCOCCI
Mol. weight [g/mol]:	124.57
CAS:	3970-21-6

Physical Properties

Property code	Value	Unit	Source
gf	-239.13	kJ/mol	Joback Method
hf	-406.07	kJ/mol	Joback Method
hfus	12.69	kJ/mol	Joback Method
hvap	33.70	kJ/mol	Joback Method
log10ws	-0.32		Crippen Method
logp	0.846		Crippen Method
mcvol	91.200	ml/mol	McGowan Method
pc	3572.80	kPa	Joback Method
tb	373.19	K	Joback Method
tc	547.46	K	Joback Method
tf	209.22	K	Joback Method
vc	0.344	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	159.50	J/molxK	373.19	Joback Method
cpg	193.27	J/molxK	518.41	Joback Method
cpg	186.79	J/molxK	489.37	Joback Method
cpg	180.16	J/molxK	460.32	Joback Method
cpg	173.40	J/molxK	431.28	Joback Method
cpg	166.51	J/molxK	402.23	Joback Method

cpg	199.60	J/mol×K	547.46	Joback Method
dvisc	0.0002425	Paxs	373.19	Joback Method
dvisc	0.0003062	Paxs	345.86	Joback Method
dvisc	0.0004025	Paxs	318.53	Joback Method
dvisc	0.0005570	Paxs	291.20	Joback Method
dvisc	0.0008245	Paxs	263.88	Joback Method
dvisc	0.0013361	Paxs	236.55	Joback Method
dvisc	0.0024560	Paxs	209.22	Joback Method

Sources

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3970216&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg:	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:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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