Methyl 1,1-dichloroethyl ether

Inchi: InChI=1S/C3H6Cl2O/c1-3(4,5)6-2/h1-2H3
InchiKey: ASXWDPUCYBGLRG-UHFFFAOYSA-N
Formula: C3H6Cl2O
SMILES: COC(C)(Cl)Cl
Mol. weight [g/mol]: 128.99

Physical Properties

Property code	Value	Unit	Source
gf	-151.64	kJ/mol	Joback Method
hf	-277.70	kJ/mol	Joback Method
hfus	5.69	kJ/mol	Joback Method
hvap	32.16	kJ/mol	Joback Method
log10ws	-1.57		Crippen Method
logp	1.784		Crippen Method
mcvol	83.480	ml/mol	McGowan Method
pc	4015.93	kPa	Joback Method
rinpol	684.00		NIST Webbook
tb	362.09	K	Joback Method
tc	558.03	K	Joback Method
tf	208.06	K	Joback Method
vc	0.308	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	130.38	J/mol×K	362.09	Joback Method
cpg	160.88	J/mol×K	525.37	Joback Method
cpg	155.45	J/mol×K	492.72	Joback Method
cpg	149.71	J/mol×K	460.06	Joback Method
cpg	143.62	J/mol×K	427.40	Joback Method
cpg	137.18	J/mol×K	394.75	Joback Method
cpg	165.98	J/mol×K	558.03	Joback Method
dvisc	0.0003700	Pa×s	362.09	Joback Method
dvisc	0.0004864	Pa×s	336.42	Joback Method

dvisc	0.0006691	Pa×s	310.75	Joback Method
dvisc	0.0009746	Pa×s	285.08	Joback Method
dvisc	0.0015296	Pa×s	259.40	Joback Method
dvisc	0.0026502	Pa×s	233.73	Joback Method
dvisc	0.0052591	Pa×s	208.06	Joback Method

Sources

Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
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=R629271&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:
https://www.chemeo.com/cid/98-745-7/Methyl-1-1-dichloroethyl-ether.pdf
Generated by Cheméo on 2024-04-27 10:38:20.205882432 +0000 UTC m=+16503549.126459748.
Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.