2-Propanol, 1-chloro-3-methoxy-

Other names: 1-Chloro-3-methoxypropan-2-ol
Inchi: InChI=1S/C4H9ClO2/c1-7-3-4(6)2-5/h4,6H,2-3H2,1H3
InchiKey: FOLYKNXDLNPWGC-UHFFFAOYSA-N
Formula: C4H9ClO2
SMILES: COCC(O)CCl
Mol. weight [g/mol]: 124.57
CAS: 4151-97-7

Physical Properties

Property code	Value	Unit	Source
gf	-273.39	kJ/mol	Joback Method
hf	-431.36	kJ/mol	Joback Method
hfus	12.07	kJ/mol	Joback Method
hvap	47.58	kJ/mol	Joback Method
log10ws	-0.11		Crippen Method
logp	0.232		Crippen Method
mcvol	91.200	ml/mol	McGowan Method
pc	4130.29	kPa	Joback Method
tb	442.51	K	Joback Method
tc	615.48	K	Joback Method
tf	232.81	K	Joback Method
vc	0.340	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	177.00	J/mol×K	442.51	Joback Method
cpg	183.98	J/mol×K	471.34	Joback Method
cpg	190.74	J/mol×K	500.17	Joback Method
cpg	197.27	J/mol×K	529.00	Joback Method
cpg	203.57	J/mol×K	557.83	Joback Method
cpg	209.64	J/mol×K	586.66	Joback Method
cpg	215.49	J/mol×K	615.48	Joback Method
dvisc	0.0605720	Pa×s	232.81	Joback Method

dvisc	0.0130502	Pa×s	267.76	Joback Method
dvisc	0.0040077	Pa×s	302.71	Joback Method
dvisc	0.0015715	Pa×s	337.66	Joback Method
dvisc	0.0007345	Pa×s	372.61	Joback Method
dvisc	0.0003912	Pa×s	407.56	Joback Method
dvisc	0.0002301	Pa×s	442.51	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=C4151977&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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