2-Propanol, 1-chloro-3-ethoxy-

Other names:	1-Ethoxy-2-hydroxy-3-chloropropane
	3-Ethoxy-1-chloro-2-propanol
	1-Chloro-3-ethoxy-2-propanol
Inchi:	InChI=1S/C5H11ClO2/c1-2-8-4-5(7)3-6/h5,7H,2-4H2,1H3
InchiKey:	XHIINWKFCZSGNY-UHFFFAOYSA-N
Formula:	C5H11ClO2
SMILES:	CCOCC(O)CCl
Mol. weight [g/mol]:	138.59
CAS:	4151-98-8

Physical Properties

Property code	Value	Unit	Source
gf	-264.97	kJ/mol	Joback Method
hf	-452.00	kJ/mol	Joback Method
hfus	14.66	kJ/mol	Joback Method
hvap	49.81	kJ/mol	Joback Method
log10ws	-0.53		Crippen Method
logp	0.623		Crippen Method
mcvol	105.290	ml/mol	McGowan Method
pc	3664.21	kPa	Joback Method
rinpol	960.00		NIST Webbook
tb	465.39	K	Joback Method
tc	637.15	K	Joback Method
tf	244.08	K	Joback Method
vc	0.396	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	215.28	J/mol×K	465.39	Joback Method
cpg	253.53	J/mol×K	608.52	Joback Method
cpg	246.44	J/mol×K	579.89	Joback Method
cpg	239.08	J/mol×K	551.27	Joback Method
cpg	231.43	J/mol×K	522.64	Joback Method

cpg	223.50	J/mol×K	494.02	Joback Method
cpg	260.34	J/mol×K	637.15	Joback Method
dvisc	0.0001895	Pa×s	465.39	Joback Method
dvisc	0.0003200	Pa×s	428.50	Joback Method
dvisc	0.0005963	Pa×s	391.62	Joback Method
dvisc	0.0012648	Pa×s	354.74	Joback Method
dvisc	0.0031943	Pa×s	317.85	Joback Method
dvisc	0.0102889	Pa×s	280.97	Joback Method
dvisc	0.0471957	Pa×s	244.08	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4151988&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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