2-Propanol, 1-chloro-3-(1-methylethoxy)-

Other names:	2-Propanol, 1-chloro-3-isopropoxy-
	1-Chloro-3-isopropoxy-2-propanol
	1-Chloro-3-(pentyloxy)-2-propanol
	U 25,352
	1-chloro-3-isopropoxypropan-2-ol
Inchi:	InChI=1S/C6H13ClO2/c1-5(2)9-4-6(8)3-7/h5-6,8H,3-4H2,1-2H3
InchiKey:	GQPJSBQMFFGZAU-UHFFFAOYSA-N
Formula:	C6H13ClO2
SMILES:	CC(C)OCC(O)CCl
Mol. weight [g/mol]:	152.62
CAS:	4288-84-0

Physical Properties

Property code	Value	Unit	Source
gf	-258.99	kJ/mol	Joback Method
hf	-477.92	kJ/mol	Joback Method
hfus	13.72	kJ/mol	Joback Method
hvap	51.65	kJ/mol	Joback Method
log10ws	-1.06		Crippen Method
logp	1.011		Crippen Method
mcvol	119.380	ml/mol	McGowan Method
pc	3302.95	kPa	Joback Method
rinpol	1000.00		NIST Webbook
rinpol	1000.00		NIST Webbook
tb	487.83	K	Joback Method
tc	661.81	K	Joback Method
tf	240.35	K	Joback Method
vc	0.446	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	256.00	J/mol×K	487.83	Joback Method
cpg	265.60	J/mol×K	516.83	Joback Method

cpg	274.83	J/mol×K	545.82	Joback Method
cpg	283.71	J/mol×K	574.82	Joback Method
cpg	292.24	J/mol×K	603.82	Joback Method
cpg	300.42	J/mol×K	632.81	Joback Method
cpg	308.26	J/mol×K	661.81	Joback Method
dvisc	0.0772383	Pa×s	240.35	Joback Method
dvisc	0.0126866	Pa×s	281.60	Joback Method
dvisc	0.0033061	Pa×s	322.84	Joback Method
dvisc	0.0011684	Pa×s	364.09	Joback Method
dvisc	0.0005103	Pa×s	405.34	Joback Method
dvisc	0.0002597	Pa×s	446.58	Joback Method
dvisc	0.0001482	Pa×s	487.83	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C4288840&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