

Loprodol

Other names:	1,3-Propanediol, 2,2-bis(chloromethyl)- Chlorpropandiol Clorpropandiol Dispranol Gentimon Pentaerythritol dichlorohydrin 2,2-Bis(chloromethyl)-1,3-propanediol
Inchi:	InChI=1S/C5H10Cl2O2/c6-1-5(2-7,3-8)4-9/h8-9H,1-4H2
InchiKey:	YFESJHPTNWIYOCO-UHFFFAOYSA-N
Formula:	C5H10Cl2O2
SMILES:	OCC(CO)(CCl)CCl
Mol. weight [g/mol]:	173.04
CAS:	2209-86-1

Physical Properties

Property code	Value	Unit	Source
gf	-303.44	kJ/mol	Joback Method
hf	-491.22	kJ/mol	Joback Method
hfus	17.86	kJ/mol	Joback Method
hvap	67.56	kJ/mol	Joback Method
log10ws	-0.51		Crippen Method
logp	0.435		Crippen Method
mvol	117.530	ml/mol	McGowan Method
pc	4062.13	kPa	Joback Method
rinpol	1340.00		NIST Webbook
tb	569.79	K	Joback Method
tc	746.34	K	Joback Method
tf	330.01	K	Joback Method
vc	0.441	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.07	J/mol×K	569.79	Joback Method

cpg	292.24	J/molxK	716.92	Joback Method
cpg	286.73	J/molxK	687.49	Joback Method
cpg	280.89	J/molxK	658.07	Joback Method
cpg	274.68	J/molxK	628.64	Joback Method
cpg	268.08	J/molxK	599.22	Joback Method
cpg	297.43	J/molxK	746.34	Joback Method
dvisc	0.0000528	Paxs	569.79	Joback Method
dvisc	0.0000997	Paxs	529.83	Joback Method
dvisc	0.0002089	Paxs	489.86	Joback Method
dvisc	0.0004992	Paxs	449.90	Joback Method
dvisc	0.0014137	Paxs	409.94	Joback Method
dvisc	0.0050124	Paxs	369.97	Joback Method
dvisc	0.0241478	Paxs	330.01	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2209861&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

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

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