p-Chlorophenyl 2,3-epoxypropyl ether

Other names:	1,2-Epoxy-3-(p-chlorophenoxy)propane
	Oxirane, [(4-chlorophenoxy)methyl]-
	Propane, 1-(p-chlorophenoxy)-2,3-epoxy-
	2-((4-Chlorophenoxy)methyl)oxirane
	Chlorophenyl glycidyl ether
	p-Chlorophenyl glycidyl ether
	4-Chlorophenyl glycidyl ether
	1,2-Epoxy-3-chlorophenoxypropane
	1-(p-Chlorophenoxy)-2,3-epoxypropane
	4-Chlorophenyl 2,3-epoxypropyl ether
	Glycidyl p-chlorophenyl ether
	NSC 60260
Inchi:	InChI=1S/C9H9ClO2/c10-7-1-3-8(4-2-7)11-5-9-6-12-9/h1-4,9H,5-6H2
InchiKey:	KSLSZOOZWRMSAP-UHFFFAOYSA-N
Formula:	C9H9ClO2
SMILES:	Clc1ccc(OCC2CO2)cc1
Mol. weight [g/mol]:	184.62
CAS:	2212-05-7

Physical Properties

Property code	Value	Unit	Source
gf	-14.62	kJ/mol	Joback Method
hf	-211.19	kJ/mol	Joback Method
hfus	24.22	kJ/mol	Joback Method
hvap	49.78	kJ/mol	Joback Method
log10ws	-2.21		Crippen Method
logp	2.118		Crippen Method
mcvol	127.030	ml/mol	McGowan Method
pc	3464.28	kPa	Joback Method
tb	530.52	K	Joback Method
tc	758.72	K	Joback Method
tf	326.79	K	Joback Method
vc	0.476	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	278.82	J/mol×K	530.52	Joback Method
cpg	291.76	J/mol×K	568.55	Joback Method
cpg	303.82	J/mol×K	606.59	Joback Method
cpg	315.05	J/mol×K	644.62	Joback Method
cpg	325.48	J/mol×K	682.66	Joback Method
cpg	335.18	J/mol×K	720.69	Joback Method
cpg	344.18	J/mol×K	758.72	Joback Method
dvisc	0.0017216	Pa×s	326.79	Joback Method
dvisc	0.0012381	Pa×s	360.75	Joback Method
dvisc	0.0009424	Pa×s	394.70	Joback Method
dvisc	0.0007490	Pa×s	428.65	Joback Method
dvisc	0.0006157	Pa×s	462.61	Joback Method
dvisc	0.0005199	Pa×s	496.56	Joback Method
dvisc	0.0004486	Pa×s	530.52	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=C2212057&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume