2,3-Epoxypropyl p-methoxyphenyl ether

Other names:	2,3-Epoxypropyl para-methoxyphenyl ether Oxirane, [(4-methoxyphenoxy)methyl]- Benzene, 1-(2,3-epoxypropoxy)-4-methoxy- Anisole, p-(2,3-epoxypropoxy)- 2,3-Epoxypropyl-4-methoxyphenyl ether Glycidyl p-methoxyphenyl ether Glycidyl 4-methoxyphenyl ether 2-(p-Methoxyphenoxymethyl)oxirane Methoxyphenyl glycidyl ether p-Methoxyphenyl glycidyl ether 3-(4-Methoxyphenoxy)-1,2-epoxypropane 1-(p-Methoxyphenoxy)-2,3-epoxypropane 1,2-Epoxy-3-(p-methoxyphenoxy)propane 1-(4-Methoxyphenoxy)-2,3-epoxypropane ((4-Methoxyphenoxy)methyl)oxirane NSC 126709 NSC 26796 2,3-epoxypropyl 4'-methoxyphenyl ether
Inchi:	InChI=1S/C10H12O3/c1-11-8-2-4-9(5-3-8)12-6-10-7-13-10/h2-5,10H,6-7H2,1H3
InchiKey:	AVWGFHZLPMLKBL-UHFFFAOYSA-N
Formula:	C10H12O3
SMILES:	COc1ccc(OCC2CO2)cc1
Mol. weight [g/mol]:	180.20
CAS:	2211-94-1

Physical Properties

Property code	Value	Unit	Source
gf	-99.27	kJ/mol	Joback Method
hf	-348.31	kJ/mol	Joback Method
hfus	23.80	kJ/mol	Joback Method
hvap	50.04	kJ/mol	Joback Method
log10ws	-1.64		Crippen Method
logp	1.473		Crippen Method
mcvol	134.750	ml/mol	McGowan Method
pc	3173.97	kPa	Joback Method
tb	538.39	K	Joback Method
tc	755.32	K	Joback Method

tf	330.37	K	Joback Method
vc	0.501	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	320.96	J/mol×K	538.39	Joback Method
cpg	335.37	J/mol×K	574.54	Joback Method
cpg	348.95	J/mol×K	610.70	Joback Method
cpg	361.74	J/mol×K	646.85	Joback Method
cpg	373.75	J/mol×K	683.01	Joback Method
cpg	385.02	J/mol×K	719.16	Joback Method
cpg	395.56	J/mol×K	755.32	Joback Method
dvisc	0.0013855	Pa×s	330.37	Joback Method
dvisc	0.0009843	Pa×s	365.04	Joback Method
dvisc	0.0007419	Pa×s	399.71	Joback Method
dvisc	0.0005851	Pa×s	434.38	Joback Method
dvisc	0.0004779	Pa×s	469.05	Joback Method
dvisc	0.0004014	Pa×s	503.72	Joback Method
dvisc	0.0003447	Pa×s	538.39	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C2211941&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume