Oxirane, [(2-methylphenoxy)methyl]-

Other names:	o-Cresol glycidyl ether
	3-(2-Methylphenoxy)-1,2-epoxypropane
	o-Cresyl glycidyl ether
	o-Kresol-glycidaether
	Glycidyl o-tolyl ether
	Glycidyl 2-methylphenyl ether
	Propane, 1,2-epoxy-3-(o-tolyloxy)-
	Propane, 1,2-epoxy-3-(o-tolyoxy)-
	1-(o-Methylphenoxy)-2,3-epoxypropane
	1-(2-Methylphenoxy)-2,3-epoxypropane
	1,2-Epoxy-3-(o-tolyoxy)propane
	1,2-Epoxy-3-(2-methylphenoxy)propane
	2-((2-Methylphenoxy)methyl)oxirane
	1,2-Epoxy-3-(o-tolyloxy)propane
	Glycidyl o-methylphenyl ether
	2-Methylphenyl glycidyl ether
	1-(2,3-Epoxypropoxy)-2-methylbenzene
	((2-Methylphenoxy)methyl)oxirane
	Cresol, o-epoxypropyl ether
	Heloxy 62
	o-Tolyl epoxypropyl ether
	o-Tolyl glycidyl ether
	Araldite DY 023
	NSC 11571
	NSC 20291
	Oxirane, 2-[(2-methylphenoxy)methyl]-
	2,3-epoxypropyl o-tolyl ether
Inchi:	InChI=1S/C10H12O2/c1-8-4-2-3-5-10(8)12-7-9-6-11-9/h2-5,9H,6-7H2,1H3
InchiKey:	KFUSXMDYOPXKKT-UHFFFAOYSA-N
Formula:	C10H12O2
SMILES:	Cc1ccccc1OCC1CO1
Mol. weight [g/mol]:	164.20
CAS:	2210-79-9

Physical Properties

Property code	Value	Unit	Source

gf	5.73	kJ/mol	Joback Method
hf	-216.09	kJ/mol	Joback Method
hfus	22.61	kJ/mol	Joback Method
hvap	47.62	kJ/mol	Joback Method
log10ws	-2.00		Crippen Method
logp	1.773		Crippen Method
mcvol	128.880	ml/mol	McGowan Method
pc	3235.66	kPa	Joback Method
tb	515.97	K	Joback Method
tc	735.33	K	Joback Method
tf	308.14	K	Joback Method
vc	0.483	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	296.69	J/mol×K	515.97	Joback Method
cpg	361.91	J/mol×K	698.77	Joback Method
cpg	350.52	J/mol×K	662.21	Joback Method
cpg	338.35	J/mol×K	625.65	Joback Method
cpg	325.34	J/mol×K	589.09	Joback Method
cpg	311.47	J/mol×K	552.53	Joback Method
cpg	372.56	J/mol×K	735.33	Joback Method
dvisc	0.0004015	Pa×s	515.97	Joback Method
dvisc	0.0004659	Pa×s	481.33	Joback Method
dvisc	0.0005534	Pa×s	446.69	Joback Method
dvisc	0.0006764	Pa×s	412.06	Joback Method
dvisc	0.0008580	Pa×s	377.42	Joback Method
dvisc	0.0011418	Pa×s	342.78	Joback Method
dvisc	0.0016203	Pa×s	308.14	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	383.20	K	0.50	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2210799&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume