Oxirane, [[4-(1,1-dimethylethyl)phenoxy]methyl]-

Other names: p-tert-Butylphenyl glycidyl ether
[[4-(1,1-Dimethylethyl)phenoxy]methyl]oxirane
4-tert-Butylphenyl 2,3-epoxypropyl ether
4-t-Butylphenyl glycidyl ether
Propane, 1-(p-tert-butylphenoxy)-2,3-epoxy-
tert-Butylphenol glycidyl ether
3-(p-tert-Butylphenoxy)-1,2-epoxypropane
tert-Butylphenyl glycidyl ether
R 1007
Heloxy 65
Oxirane, 2-[[4-(1,1-dimethylethyl)phenoxy]methyl]-
p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

Inchi: InChI=1S/C13H18O2/c1-13(2,3)10-4-6-11(7-5-10)14-8-12-9-15-12/h4-7,12H,8-9H2,1-3H

InchiKey: HHRACYLRBOUBKM-UHFFFAOYSA-N

Formula: C13H18O2

SMILES: CC(C)(C)c1ccc(OCC2CO2)cc1

Mol. weight [g/mol]: 206.28

CAS: 3101-60-8

Physical Properties

Property code	Value	Unit	Source
gf	33.83	kJ/mol	Joback Method
hf	-286.76	kJ/mol	Joback Method
hfus	22.97	kJ/mol	Joback Method
hvap	53.01	kJ/mol	Joback Method
log10ws	-2.84		Crippen Method
logp	2.762		Crippen Method
mcvol	171.150	ml/mol	McGowan Method
pc	2433.84	kPa	Joback Method
tb	581.38	K	Joback Method
tc	802.85	K	Joback Method
tf	344.37	K	Joback Method
vc	0.640	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	442.06	J/mol×K	581.38	Joback Method
cpg	520.23	J/mol×K	765.94	Joback Method
cpg	506.74	J/mol×K	729.03	Joback Method
cpg	492.24	J/mol×K	692.11	Joback Method
cpg	476.68	J/mol×K	655.20	Joback Method
cpg	459.98	J/mol×K	618.29	Joback Method
cpg	532.82	J/mol×K	802.85	Joback Method
dvisc	0.0003171	Pa×s	581.38	Joback Method
dvisc	0.0003871	Pa×s	541.88	Joback Method
dvisc	0.0004876	Pa×s	502.38	Joback Method
dvisc	0.0006388	Pa×s	462.88	Joback Method
dvisc	0.0008802	Pa×s	423.37	Joback Method
dvisc	0.0012955	Pa×s	383.87	Joback Method
dvisc	0.0020837	Pa×s	344.37	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	440.70	K	1.90	NIST Webbook

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=C3101608&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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume