Oxirane, 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxyme

Other names: Propane, 2,2-bis[p-(2,3-epoxypropoxy)phenyl]-
Bis(4-glycidyloxyphenyl)dimethylmethane
Bis(4-hydroxyphenyl)dimethylmethane diglycidyl ether
Bisphenol A diglycidyl ether
D.E.R. 332
Dian diglycidyl ether
Diglycidyl bisphenol A
Diglycidyl diphenylolpropane ether
Diomethane diglycidyl ether
Epophen EL 5
Epoxide A
EP 274
2,2-Bis(p-glycidyloxyphenyl)propane
2,2-Bis(p-hydroxyphenyl)propane diglycidyl ether
2,2-Bis(4-glycidyloxyphenyl)propane
2,2-Bis(4-hydroxyphenyl)propane diglycidyl ether
2,2-Bis(4'-glycidyloxyphenyl)propane
2,2-Bis[p-(2,3-epoxypropoxy)phenyl]propane
2,2-Bis[4-(2,3-epoxypropoxy)phenyl]propane
2,2-Bis[4-(2,3-epoxypropyloxy)phenyl]propane
4,4'-Bis(2,3-epoxypropoxy)diphenyldimethylmethane
4,4'-Isopropylidenebis[1-(2,3-epoxypropoxy)benzene]
4,4'-Isopropylidenediphenol diglycidyl ether
Bis[4-(2,3-epoxypropoxy)phenyl]-(2)-propane
epi-Rez 510
p,p'-Dihydroxydiphenyldimethylmethane diglycidyl ether
Dian-bis-glycidylether
Diglycidyl bisphenol A ether
Diglycidyl ether of bisphenol A
Diglycidyl ether of 2,2-bis(p-hydroxyphenyl)propane
Diglycidyl ether of 2,2-bis(4-hydroxyphenyl)propane
Diglycidyl ether of 4,4'-isopropylidenediphenol
ERL-2774
Propane, 2,2-bis(4-(2,3-epoxypropoxy)phenyl)-
4,4'-Dihydroxydiphenyldimethylmethane diglycidyl ether
Epi-rez 508
2,2'-((1-Methylethylidene)bis(4,1-phenyleneoxymethylene))bisoxirane
NSC 5022

Inchi: InChI=1S/C21H24O4/c1-21(2,15-3-7-17(8-4-15)22-11-19-13-24-19)16-5-9-18(10-6-16)23

InchiKey: LCFVJGUPQDGYKZ-UHFFFAOYSA-N

Formula: C21H24O4
SMILES: CC(C)(c1ccc(OCC2CO2)cc1)c1ccc(OCC2CO2)cc1
Mol. weight [g/mol]: 340.41
CAS: 1675-54-3

Physical Properties

Property code	Value	Unit	Source
gf	73.60	kJ/mol	Joback Method
hf	-418.24	kJ/mol	Joback Method
hfus	44.64	kJ/mol	Joback Method
hvap	80.59	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	3.568		Crippen Method
mcvol	260.990	ml/mol	McGowan Method
pc	1772.85	kPa	Joback Method
rinpol	2805.00		NIST Webbook
tb	852.19	K	Joback Method
tc	1091.24	K	Joback Method
tf	540.21	K	Joback Method
vc	0.977	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	838.14	J/mol×K	852.19	Joback Method
cpg	855.43	J/mol×K	892.03	Joback Method
cpg	871.51	J/mol×K	931.87	Joback Method
cpg	886.51	J/mol×K	971.72	Joback Method
cpg	900.59	J/mol×K	1011.56	Joback Method
cpg	913.89	J/mol×K	1051.40	Joback Method
cpg	926.55	J/mol×K	1091.24	Joback Method
dvisc	0.0013013	Pa×s	540.21	Joback Method
dvisc	0.0009162	Pa×s	592.21	Joback Method
dvisc	0.0006826	Pa×s	644.20	Joback Method
dvisc	0.0005315	Pa×s	696.20	Joback Method
dvisc	0.0004284	Pa×s	748.20	Joback Method
dvisc	0.0003552	Pa×s	800.19	Joback Method

dvisc	0.0003013	Pa×s	852.19	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1675543&Units=SI

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