Oxirane, 2,2'-[1,3-phenylenebis(oxymethylene)]bis-

Other names: Benzene, m-bis(2,3-epoxypropoxy)-
m-Bis(2,3-epoxypropoxy)benzene
Diglycidyl ether of resorcinol
Diglycidyl resorcinol ether
Resorcinol bis(2,3-epoxypropyl) ether
Resorcinol diglycidyl ether
Resorcinol glycidyl ether
1,3-Bis(2,3-epoxypropoxy)benzene
m-Bis(glycidyloxy)benzene
Araldite ERE 1359
NCI-C54966
Resorcinyl diglycidyl ether
2,2'-(1,3-Phenylenebis(oxymethylene))bisoxirane
Resorcinol, diglycidyl-
meta-Bis(glycidyloxy)benzene
1,3-Diglycidyloxybenzene
ERE 1359
NSC 76621

Inchi: InChI=1S/C12H14O4/c1-2-9(13-5-11-7-15-11)4-10(3-1)14-6-12-8-16-12/h1-4,11-12H,5-8

InchiKey: WPYCRFCQABTEKC-UHFFFAOYSA-N

Formula: C12H14O4

SMILES: c1cc(OCC2CO2)cc(OCC2CO2)c1

Mol. weight [g/mol]: 222.24

CAS: 101-90-6

Physical Properties

Property code	Value	Unit	Source
gf	-107.80	kJ/mol	Joback Method
hf	-448.79	kJ/mol	Joback Method
hfus	35.09	kJ/mol	Joback Method
hvap	58.91	kJ/mol	Joback Method
log10ws	-1.57		Crippen Method
logp	1.242		Crippen Method
mcvol	157.940	ml/mol	McGowan Method
pc	2934.52	kPa	Joback Method
tb	617.84	K	Joback Method
tc	840.39	K	Joback Method

tf	397.42	K	Joback Method
vc	0.592	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	432.25	J/mol×K	617.84	Joback Method
cpg	448.02	J/mol×K	654.93	Joback Method
cpg	462.72	J/mol×K	692.02	Joback Method
cpg	476.44	J/mol×K	729.12	Joback Method
cpg	489.22	J/mol×K	766.21	Joback Method
cpg	501.14	J/mol×K	803.30	Joback Method
cpg	512.25	J/mol×K	840.39	Joback Method
dvisc	0.0020039	Pa×s	397.42	Joback Method
dvisc	0.0015893	Pa×s	434.16	Joback Method
dvisc	0.0013069	Pa×s	470.89	Joback Method
dvisc	0.0011055	Pa×s	507.63	Joback Method
dvisc	0.0009565	Pa×s	544.37	Joback Method
dvisc	0.0008429	Pa×s	581.10	Joback Method
dvisc	0.0007541	Pa×s	617.84	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=C101906&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume