Oxirane, 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]b

Other names: Bis[4-[(oxiran-2-yl)methoxy]phenyl]methane
Benzene, 1,1'-methylenebis[4-[(2-oxiranyl)methoxy]-
Bisphenol F diglycidyl ether, para-para'
2,2'-(Methylenebis(p-phenyleneoxymethylene))bisoxirane
Methane, bis[p-(2,3-epoxypropoxy)phenyl]-
4,4'-Methylenebisphenol diglycidyl ether
p,p-BFDGE
para-para-BFDGE

Inchi: InChI=1S/C19H20O4/c1-5-16(20-10-18-12-22-18)6-2-14(1)9-15-3-7-17(8-4-15)21-11-19-

InchiKey: XUCHXOAWJMEFLF-UHFFFAOYSA-N

Formula: C19H20O4

SMILES: c1cc(OCC2CO2)ccc1Cc1ccc(OCC2CO2)cc1

Mol. weight [g/mol]: 312.36

CAS: 2095-03-6

Physical Properties

Property code	Value	Unit	Source
gf	53.92	kJ/mol	Joback Method
hf	-368.21	kJ/mol	Joback Method
hfus	46.87	kJ/mol	Joback Method
hvap	77.43	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	2.833		Crippen Method
mcvol	232.810	ml/mol	McGowan Method
pc	2062.36	kPa	Joback Method
rinpol	2704.00		NIST Webbook
tb	809.66	K	Joback Method
tc	1045.24	K	Joback Method
tf	515.25	K	Joback Method
vc	0.875	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source

cpg	721.89	J/mol×K	809.66	Joback Method
cpg	738.50	J/mol×K	848.92	Joback Method
cpg	753.89	J/mol×K	888.19	Joback Method
cpg	768.16	J/mol×K	927.45	Joback Method
cpg	781.42	J/mol×K	966.71	Joback Method
cpg	793.77	J/mol×K	1005.98	Joback Method
cpg	805.32	J/mol×K	1045.24	Joback Method
dvisc	0.0016010	Pa×s	515.25	Joback Method
dvisc	0.0011956	Pa×s	564.32	Joback Method
dvisc	0.0009356	Pa×s	613.39	Joback Method
dvisc	0.0007592	Pa×s	662.45	Joback Method
dvisc	0.0006341	Pa×s	711.52	Joback Method
dvisc	0.0005420	Pa×s	760.59	Joback Method
dvisc	0.0004722	Pa×s	809.66	Joback Method

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=C2095036&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
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature

tf:	Normal melting (fusion) point
vc:	Critical Volume