Bis[4-[(oxiran-2-yl)methoxy]phenyl]methane

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

Physical Properties

Property code	Value	Unit	Source
hf	-350.03	kJ/mol	Cheméo Relay (1.0)
hfus	46.87	kJ/mol	Joback Method
hvap	119.85	kJ/mol	Cheméo Relay (1.0)
logp	2.833		Crippen Method
mcvol	232.810	ml/mol	McGowan Method
pc	2062.36	kPa	Joback Method
rinpol	2704.00		NIST Webbook
rinpol	2704.00		NIST Webbook
tb	708.80	K	Cheméo Relay (1.0)
tc	925.54	K	Cheméo Relay (1.0)
tf	330.65	K	Cheméo Relay (1.0)

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

Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C2095036&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
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

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