2-BIPHENYLYL 2,3-EPOXYPROPYL ETHER

Other names: (((1,1'-Biphenyl)-2-yloxy)methyl)oxirane
Biphenyl, 2-(2,3-epoxypropoxy)-
Propane, 1-(2-biphenylyloxy)-2,3-epoxy-
Propane, 1,2-epoxy-3-(2-xenolyl)-
3-(2-Biphenylyloxy)propylene oxide
3-(2-Diphenylyloxy)-1,2-epoxypropane
3-(2-Xenolyl)-1,2-epoxypropane
3-(2-Xenyloxy)-1,2-epoxypropane
3-(2-Xenyloxy)propylene oxide
2-Biphenylyl glycidyl ether
Propane, 1-(2'-biphenyloxy)-2,3-epoxy-
OPP-G
Oxirane, 2-((1,1'-biphenyl-2-yloxy)methyl)-
2-[([1,1'-Biphenyl]-2-yloxy)methyl]oxirane
biphenyl-2-yl 2,3-epoxypropyl ether

Inchi: InChI=1S/C15H14O2/c1-2-6-12(7-3-1)14-8-4-5-9-15(14)17-11-13-10-16-13/h1-9,13H,10-

InchiKey: DNVXWIINBUTFEP-UHFFFAOYSA-N

Formula: C15H14O2

SMILES: c1ccc(-c2ccccc2OCC2CO2)cc1

Mol. weight [g/mol]: 226.28

Physical Properties

Property code	Value	Unit	Source
hf	-16.01	kJ/mol	Cheméo Relay (1.0)
hfus	29.60	kJ/mol	Joback Method
hvap	95.62	kJ/mol	Cheméo Relay (1.0)
logp	3.131		Crippen Method
mcvol	175.570	ml/mol	McGowan Method
pc	2749.78	kPa	Joback Method
tb	621.74	K	Cheméo Relay (1.0)
tc	856.80	K	Cheméo Relay (1.0)
tf	311.94	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	463.86	J/mol×K	657.05	Joback Method
cpg	480.87	J/mol×K	697.98	Joback Method
cpg	496.53	J/mol×K	738.90	Joback Method
cpg	510.94	J/mol×K	779.83	Joback Method
cpg	524.18	J/mol×K	820.76	Joback Method
cpg	536.36	J/mol×K	861.69	Joback Method
cpg	547.56	J/mol×K	902.61	Joback Method
dvisc	0.0016172	Pa×s	390.91	Joback Method
dvisc	0.0010736	Pa×s	435.27	Joback Method
dvisc	0.0007688	Pa×s	479.62	Joback Method
dvisc	0.0005826	Pa×s	523.98	Joback Method
dvisc	0.0004610	Pa×s	568.34	Joback Method
dvisc	0.0003774	Pa×s	612.69	Joback Method
dvisc	0.0003174	Pa×s	657.05	Joback Method

Sources

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=C7144652&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point