

Oxirane, [([1,1'-biphenyl]-2-yloxy)methyl]-

Other names:

((([1,1'-Biphenyl]-2-yloxy)methyl)oxirane
Biphenyl, 2-(2,3-epoxypropoxy)-
Propane, 1-(2-biphenyloxy)-2,3-epoxy-
Propane, 1,2-epoxy-3-(2-xenolyl)-
3-(2-Biphenyloxy)propylene oxide
3-(2-Diphenyloxy)-1,2-epoxypropane
3-(2-Xenolyl)-1,2-epoxypropane
3-(2-Xenyloxy)-1,2-epoxypropane
3-(2-Xenyloxy)propylene oxide
2-Biphenyl 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]:** 226.27**CAS:** 7144-65-2

Physical Properties

Property code	Value	Unit	Source
gf	160.24	kJ/mol	Joback Method
hf	-82.76	kJ/mol	Joback Method
hfus	29.60	kJ/mol	Joback Method
hvap	61.03	kJ/mol	Joback Method
log10ws	-4.13		Crippen Method
logp	3.131		Crippen Method
mcvol	175.570	ml/mol	McGowan Method
pc	2749.78	kPa	Joback Method
tb	657.05	K	Joback Method
tc	902.61	K	Joback Method
tf	390.91	K	Joback Method
vc	0.655	m ³ /kmol	Joback Method

Temperature Dependent Properties

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

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7144652&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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

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