

Benzene, 1,1'-(oxydiethylidene)bis-

Other names:	Ether, bis(«alpha»-methylbenzyl) «alpha»-Methyl benzyl ether Bis(«alpha»-methylbenzyl) ether Bis(«alpha»-phenylethyl) ether 1,1'-Diphenyldiethyl ether Alpha,alpha'-diphenyl diethyl ether [1-(1-Phenylethoxy)ethyl]benzene 1,1'-(oxydiethylidene)bisbenzene
Inchi:	InChI=1S/C16H18O/c1-13(15-9-5-3-6-10-15)17-14(2)16-11-7-4-8-12-16/h3-14H,1-2H3
InchiKey:	WXAVSTZWKNIWCN-UHFFFAOYSA-N
Formula:	C16H18O
SMILES:	CC(OC(C)c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	226.31
CAS:	93-96-9

Physical Properties

Property code	Value	Unit	Source
gf	198.78	kJ/mol	Joback Method
hf	-43.29	kJ/mol	Joback Method
hfus	19.42	kJ/mol	Joback Method
hvap	57.40	kJ/mol	Joback Method
log10ws	-4.73		Crippen Method
logp	4.525		Crippen Method
mcvol	194.650	ml/mol	McGowan Method
pc	2282.77	kPa	Joback Method
tb	450.15 ± 3.00	K	NIST Webbook
tc	876.86	K	Joback Method
tf	315.15	K	Joback Method
vc	0.722	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	594.52	J/mol×K	876.86	Joback Method

cpg	500.46	J/mol×K	640.38	Joback Method
cpg	519.41	J/mol×K	679.79	Joback Method
cpg	536.96	J/mol×K	719.21	Joback Method
cpg	553.19	J/mol×K	758.62	Joback Method
cpg	568.14	J/mol×K	798.03	Joback Method
cpg	581.90	J/mol×K	837.45	Joback Method
dvisc	0.0001035	Paxs	640.38	Joback Method
dvisc	0.0029645	Paxs	315.15	Joback Method
dvisc	0.0011246	Paxs	369.36	Joback Method
dvisc	0.0005467	Paxs	423.56	Joback Method
dvisc	0.0003130	Paxs	477.76	Joback Method
dvisc	0.0002008	Paxs	531.97	Joback Method
dvisc	0.0001398	Paxs	586.17	Joback Method
hvapt	62.10	kJ/mol	461.50	NIST Webbook

Sources

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=C93969&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
hvapt:	Enthalpy of vaporization at a given temperature
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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