

Ether, methyl diphenylmethyl

Inchi:	InChI=1S/C14H14O/c1-15-14(12-8-4-2-5-9-12)13-10-6-3-7-11-13/h2-11,14H,1H3
InchiKey:	IBNWKIKUJJNBKG-UHFFFAOYSA-N
Formula:	C14H14O
SMILES:	COC(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	198.26
CAS:	1016-09-7

Physical Properties

Property code	Value	Unit	Source
gf	184.38	kJ/mol	Joback Method
hf	3.27	kJ/mol	Joback Method
hfus	17.76	kJ/mol	Joback Method
hvap	53.33	kJ/mol	Joback Method
log10ws	-3.54		Crippen Method
logp	3.422		Crippen Method
mcvol	166.470	ml/mol	McGowan Method
pc	2744.03	kPa	Joback Method
tb	595.06	K	Joback Method
tc	836.42	K	Joback Method
tf	307.61	K	Joback Method
vc	0.616	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	398.54	J/molxK	595.06	Joback Method
cpg	416.17	J/molxK	635.29	Joback Method
cpg	432.50	J/molxK	675.51	Joback Method
cpg	447.58	J/molxK	715.74	Joback Method
cpg	461.47	J/molxK	755.96	Joback Method
cpg	474.22	J/molxK	796.19	Joback Method
cpg	485.90	J/molxK	836.42	Joback Method
dvisc	0.0024921	Paxs	307.61	Joback Method
dvisc	0.0011055	Paxs	355.52	Joback Method

dvisc	0.0005948	Paxs	403.43	Joback Method
dvisc	0.0003651	Paxs	451.33	Joback Method
dvisc	0.0002461	Paxs	499.24	Joback Method
dvisc	0.0001777	Paxs	547.15	Joback Method
dvisc	0.0001353	Paxs	595.06	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1016097&Units=SI

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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