Cyclotridecene, 1-methoxy-, (Z)-

Inchi: InChI=1S/C14H26O/c1-15-14-12-10-8-6-4-2-3-5-7-9-11-13-14/h12H,2-11,13H2,1H3/b14-
InchiKey: DQNSWVPJRZTUNF-WYMLVPIESA-N
Formula: C14H26O
SMILES: COC1=CCCCCCCCCCCC1
Mol. weight [g/mol]: 210.36
CAS: 78289-14-2

Physical Properties

Property code	Value	Unit	Source
gf	-70.21	kJ/mol	Joback Method
hf	-386.66	kJ/mol	Joback Method
hfus	10.10	kJ/mol	Joback Method
hvap	52.06	kJ/mol	Joback Method
log10ws	-5.01		Crippen Method
logp	4.821		Crippen Method
mcvol	198.830	ml/mol	McGowan Method
pc	2173.43	kPa	Joback Method
tb	600.39	K	Joback Method
tc	839.73	K	Joback Method
tf	270.03	K	Joback Method
vc	0.702	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	523.64	J/mol×K	600.39	Joback Method
cpg	551.00	J/mol×K	640.28	Joback Method
cpg	576.65	J/mol×K	680.17	Joback Method
cpg	600.57	J/mol×K	720.06	Joback Method
cpg	622.72	J/mol×K	759.95	Joback Method
cpg	643.06	J/mol×K	799.84	Joback Method
cpg	661.56	J/mol×K	839.73	Joback Method
dvisc	0.0252648	Pa×s	270.03	Joback Method
dvisc	0.0028674	Pa×s	325.09	Joback Method

dvisc	0.0006112	Pa×s	380.15	Joback Method
dvisc	0.0001927	Pa×s	435.21	Joback Method
dvisc	0.0000787	Pa×s	490.27	Joback Method
dvisc	0.0000385	Pa×s	545.33	Joback Method
dvisc	0.0000215	Pa×s	600.39	Joback Method

Sources

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=C78289142&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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