Cyclopentene,3-methoxy-

Inchi: InChI=1S/C6H10O/c1-7-6-4-2-3-5-6/h2,4,6H,3,5H2,1H3
InchiKey: PUNAFIBTAHETMN-UHFFFAOYSA-N
Formula: C6H10O
SMILES: COC1C=CCC1
Mol. weight [g/mol]: 98.14
CAS: 39819-74-4

Physical Properties

Property code	Value	Unit	Source
gf	-38.85	kJ/mol	Joback Method
hf	-181.13	kJ/mol	Joback Method
hfus	7.64	kJ/mol	Joback Method
hvap	31.91	kJ/mol	Joback Method
ie	9.45 ± 0.05	eV	NIST Webbook
log10ws	-1.28		Crippen Method
logp	1.351		Crippen Method
mcvol	86.110	ml/mol	McGowan Method
pc	3930.78	kPa	Joback Method
tb	373.54	K	Joback Method
tc	570.82	K	Joback Method
tf	191.27	K	Joback Method
vc	0.317	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	149.07	J/mol×K	373.54	Joback Method
cpg	161.23	J/mol×K	406.42	Joback Method
cpg	172.86	J/mol×K	439.30	Joback Method
cpg	183.96	J/mol×K	472.18	Joback Method
cpg	194.55	J/mol×K	505.06	Joback Method
cpg	204.65	J/mol×K	537.94	Joback Method
cpg	214.25	J/mol×K	570.82	Joback Method
dvisc	0.0019874	Pa×s	191.27	Joback Method

dvisc	0.0011102	Pa×s	221.65	Joback Method
dvisc	0.0007136	Pa×s	252.03	Joback Method
dvisc	0.0005045	Pa×s	282.40	Joback Method
dvisc	0.0003815	Pa×s	312.78	Joback Method
dvisc	0.0003031	Pa×s	343.16	Joback Method
dvisc	0.0002500	Pa×s	373.54	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C39819744&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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
ie:	Ionization energy
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