1-Cyclohexene, 3-methoxy-

Other names: Cyclohexene, 3-methoxy-
Inchi: InChI=1S/C7H12O/c1-8-7-5-3-2-4-6-7/h3,5,7H,2,4,6H2,1H3
InchiKey: OKDKFTKUXADLSJ-UHFFFAOYSA-N
Formula: C7H12O
SMILES: COC1C=CCCC1
Mol. weight [g/mol]: 112.17
CAS: 2699-13-0

Physical Properties

Property code	Value	Unit	Source
gf	-42.53	kJ/mol	Joback Method
hf	-207.93	kJ/mol	Joback Method
hfus	8.13	kJ/mol	Joback Method
hvap	34.31	kJ/mol	Joback Method
log10ws	-1.70		Crippen Method
logp	1.742		Crippen Method
mcvol	100.200	ml/mol	McGowan Method
pc	3602.88	kPa	Joback Method
tb	400.69	K	Joback Method
tc	604.95	K	Joback Method
tf	199.02	K	Joback Method
vc	0.364	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	184.89	J/mol×K	400.69	Joback Method
cpg	251.04	J/mol×K	570.90	Joback Method
cpg	239.05	J/mol×K	536.86	Joback Method
cpg	226.45	J/mol×K	502.82	Joback Method
cpg	213.23	J/mol×K	468.78	Joback Method
cpg	199.38	J/mol×K	434.73	Joback Method
cpg	262.43	J/mol×K	604.95	Joback Method
dvisc	0.0002392	Pa×s	400.69	Joback Method

dvisc	0.0003089	Pa×s	367.08	Joback Method
dvisc	0.0004202	Pa×s	333.47	Joback Method
dvisc	0.0006123	Pa×s	299.86	Joback Method
dvisc	0.0009812	Pa×s	266.24	Joback Method
dvisc	0.0018021	Pa×s	232.63	Joback Method
dvisc	0.0040640	Pa×s	199.02	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=C2699130&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