Cyclohexane, (2-methoxyethyl)-

Inchi: InChI=1S/C9H18O/c1-10-8-7-9-5-3-2-4-6-9/h9H,2-8H2,1H3
InchiKey: SCKZEHIXKJLFOB-UHFFFAOYSA-N
Formula: C9H18O
SMILES: COCCC1CCCCC1
Mol. weight [g/mol]: 142.24
CAS: 51284-32-3

Physical Properties

Property code	Value	Unit	Source
gf	-55.65	kJ/mol	Joback Method
hf	-306.99	kJ/mol	Joback Method
hfus	12.09	kJ/mol	Joback Method
hvap	38.47	kJ/mol	Joback Method
log10ws	-2.33		Crippen Method
logp	2.603		Crippen Method
mcvol	132.680	ml/mol	McGowan Method
pc	2787.66	kPa	Joback Method
tb	447.29	K	Joback Method
tc	645.27	K	Joback Method
tf	220.80	K	Joback Method
vc	0.490	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	282.44	J/mol×K	447.29	Joback Method
cpg	364.76	J/mol×K	612.27	Joback Method
cpg	349.83	J/mol×K	579.28	Joback Method
cpg	334.15	J/mol×K	546.28	Joback Method
cpg	317.69	J/mol×K	513.28	Joback Method
cpg	300.46	J/mol×K	480.29	Joback Method
cpg	378.95	J/mol×K	645.27	Joback Method
dvisc	0.0002371	Pa×s	447.29	Joback Method
dvisc	0.0003167	Pa×s	409.54	Joback Method

dvisc	0.0004485	Pa×s	371.79	Joback Method
dvisc	0.0006873	Pa×s	334.04	Joback Method
dvisc	0.0011742	Pa×s	296.30	Joback Method
dvisc	0.0023456	Pa×s	258.55	Joback Method
dvisc	0.0059362	Pa×s	220.80	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C51284323&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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