

Cyclohexanol,2-methoxy-,cis-

Inchi:	InChI=1S/C7H14O2/c1-9-7-5-3-2-4-6(7)8/h6-8H,2-5H2,1H3/t6-,7+/m1/s1
InchiKey:	DCQQZLQGQRIVCNH-RQJHMYQMSA-N
Formula:	C7H14O2
SMILES:	COC1CCCCC1O
Mol. weight [g/mol]:	130.18
CAS:	7429-41-6

Physical Properties

Property code	Value	Unit	Source
gf	-217.02	kJ/mol	Joback Method
hf	-438.28	kJ/mol	Joback Method
hfus	12.07	kJ/mol	Joback Method
hvap	50.39	kJ/mol	Joback Method
ie	9.68	eV	NIST Webbook
log10ws	-1.22		Crippen Method
logp	0.936		Crippen Method
mcvol	110.370	ml/mol	McGowan Method
pc	3704.46	kPa	Joback Method
tb	489.04	K	Joback Method
tc	680.38	K	Joback Method
tf	254.84	K	Joback Method
vc	0.397	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.97	J/molxK	489.04	Joback Method
cpg	319.75	J/molxK	648.49	Joback Method
cpg	308.16	J/molxK	616.60	Joback Method
cpg	295.99	J/molxK	584.71	Joback Method
cpg	283.24	J/molxK	552.82	Joback Method
cpg	269.90	J/molxK	520.93	Joback Method
cpg	330.76	J/molxK	680.38	Joback Method
dvisc	0.0001684	Paxs	489.04	Joback Method

dvisc	0.0002713	Paxs	450.01	Joback Method
dvisc	0.0004785	Paxs	410.97	Joback Method
dvisc	0.0009505	Paxs	371.94	Joback Method
dvisc	0.0022178	Paxs	332.91	Joback Method
dvisc	0.0064812	Paxs	293.87	Joback Method
dvisc	0.0263065	Paxs	254.84	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7429416&Units=SI
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

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

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