

Cyclohexanol, 4-methoxy-

Other names:	4-Methoxycyclohexanol 4-Methoxycyclohexanol (c,t)
Inchi:	InChI=1S/C7H14O2/c1-9-7-4-2-6(8)3-5-7/h6-8H,2-5H2,1H3
InchiKey:	PFTGXSGDFZZZFY-UHFFFAOYSA-N
Formula:	C7H14O2
SMILES:	COC1CCC(O)CC1
Mol. weight [g/mol]:	130.18
CAS:	18068-06-9

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
log10ws	-1.22		Crippen Method
logp	0.936		Crippen Method
mvol	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	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	255.97	J/mol×K	489.04	Joback Method
cpg	319.75	J/mol×K	648.49	Joback Method
cpg	308.16	J/mol×K	616.60	Joback Method
cpg	295.99	J/mol×K	584.71	Joback Method
cpg	283.24	J/mol×K	552.82	Joback Method
cpg	269.90	J/mol×K	520.93	Joback Method
cpg	330.76	J/mol×K	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

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=C18068069&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.cheméo.com/cid/41-744-0/Cyclohexanol-4-methoxy.pdf>

Generated by Cheméo on 2024-04-30 05:17:17.417646903 +0000 UTC m=+16743486.338224215.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.