Cyclopentanol, 2-methyl-

Other names:	2-Methylcyclopentanol
	2-Methylcyclopentyl alcohol
Inchi:	InChI=1S/C6H12O/c1-5-3-2-4-6(5)7/h5-7H,2-4H2,1H3
InchiKey:	BVIJQMCYYASIFP-UHFFFAOYSA-N
Formula:	C6H12O
SMILES:	CC1CCCC1O
Mol. weight [g/mol]:	100.16
CAS:	24070-77-7

Physical Properties

Property code	Value	Unit	Source
chl	-3744.00	kJ/mol	NIST Webbook
gf	-108.34	kJ/mol	Joback Method
hf	-279.26	kJ/mol	Joback Method
hfus	10.39	kJ/mol	Joback Method
hvap	45.58	kJ/mol	Joback Method
log10ws	-1.36		Crippen Method
logp	1.167		Crippen Method
mcvol	90.410	ml/mol	McGowan Method
pc	4135.61	kPa	Joback Method
tb	421.00 ± 3.00	K	NIST Webbook
tb	424.00 ± 6.00	K	NIST Webbook
tc	626.67	K	Joback Method
tf	224.86	K	Joback Method
vc	0.331	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	190.21	J/mol×K	439.47	Joback Method
cpg	202.53	J/mol×K	470.67	Joback Method
cpg	214.29	J/mol×K	501.87	Joback Method
cpg	225.50	J/mol×K	533.07	Joback Method
cpg	236.17	J/mol×K	564.27	Joback Method

cpg	246.32	J/mol×K	595.47	Joback Method
cpg	255.97	J/mol×K	626.67	Joback Method
dvisc	0.0399340	Pa×s	224.86	Joback Method
dvisc	0.0100642	Pa×s	260.63	Joback Method
dvisc	0.0035374	Pa×s	296.40	Joback Method
dvisc	0.0015573	Pa×s	332.16	Joback Method
dvisc	0.0008042	Pa×s	367.93	Joback Method
dvisc	0.0004669	Pa×s	403.70	Joback Method
dvisc	0.0002961	Pa×s	439.47	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=C24070777&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

chl: Standard liquid enthalpy of combustion
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