

3-Methyl-2-cyclopentanol

Inchi:	InChI=1S/C6H10O/c1-5-2-3-6(7)4-5/h4,6-7H,2-3H2,1H3
InchiKey:	ZSIRHTQYODRYMQ-UHFFFAOYSA-N
Formula:	C6H10O
SMILES:	CC1=CC(O)CC1
Mol. weight [g/mol]:	98.14

Physical Properties

Property code	Value	Unit	Source
gf	-80.30	kJ/mol	Joback Method
hf	-212.61	kJ/mol	Joback Method
hfus	10.15	kJ/mol	Joback Method
hvap	46.84	kJ/mol	Joback Method
log10ws	-1.46		Crippen Method
logp	1.087		Crippen Method
mcvol	86.110	ml/mol	McGowan Method
pc	4438.52	kPa	Joback Method
ripol	1446.00		NIST Webbook
ripol	1448.00		NIST Webbook
ripol	1446.00		NIST Webbook
tb	448.28	K	Joback Method
tc	639.05	K	Joback Method
tf	242.38	K	Joback Method
vc	0.318	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	175.56	J/molxK	448.28	Joback Method
cpg	222.78	J/molxK	607.26	Joback Method
cpg	214.29	J/molxK	575.46	Joback Method
cpg	205.34	J/molxK	543.67	Joback Method
cpg	195.91	J/molxK	511.87	Joback Method
cpg	185.99	J/molxK	480.08	Joback Method
cpg	230.83	J/molxK	639.05	Joback Method

dvisc	0.0002575	Paxs	448.28	Joback Method
dvisc	0.0003983	Paxs	413.96	Joback Method
dvisc	0.0006667	Paxs	379.65	Joback Method
dvisc	0.0012361	Paxs	345.33	Joback Method
dvisc	0.0026265	Paxs	311.01	Joback Method
dvisc	0.0067282	Paxs	276.70	Joback Method
dvisc	0.0224955	Paxs	242.38	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R517881&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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