p-Menthane-1,3-diol

Other names: 1,3-Cyclohexanediol, 1-methyl-4-(1-methylethyl)
1-Hydroxymenthol
Inchi: InChI=1S/C10H20O2/c1-7(2)8-4-5-10(3,12)6-9(8)11/h7-9,11-12H,4-6H2,1-3H3
InchiKey: IIZCEIWXLSJQFP-UHFFFAOYSA-N
Formula: C10H20O2
SMILES: CC(C)C1CCC(C)(O)CC1O
Mol. weight [g/mol]: 172.26
CAS: 1612-98-2

Physical Properties

Property code	Value	Unit	Source
gf	-239.22	kJ/mol	Joback Method
hf	-530.59	kJ/mol	Joback Method
hfus	13.99	kJ/mol	Joback Method
hvap	69.48	kJ/mol	Joback Method
log10ws	-2.17		Crippen Method
logp	1.554		Crippen Method
mcvol	152.640	ml/mol	McGowan Method
pc	3079.57	kPa	Joback Method
rinpol	1373.00		NIST Webbook
rinpol	1394.00		NIST Webbook
tb	622.57	K	Joback Method
tc	808.83	K	Joback Method
tf	331.90	K	Joback Method
vc	0.556	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	433.50	J/mol×K	622.57	Joback Method
cpg	447.89	J/mol×K	653.61	Joback Method
cpg	461.61	J/mol×K	684.66	Joback Method
cpg	474.74	J/mol×K	715.70	Joback Method
cpg	487.33	J/mol×K	746.74	Joback Method

cpg	499.46	J/mol×K	777.79	Joback Method
cpg	511.20	J/mol×K	808.83	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1612982&Units=SI

Legend

cpg:	Ideal gas heat capacity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume