Cyclohexanol, 4-methyl-1-(1-methylethyl)-

Other names: p-Menthan-4-ol
Inchi: InChI=1S/C10H20O/c1-8(2)10(11)6-4-9(3)5-7-10/h8-9,11H,4-7H2,1-3H3
InchiKey: LWKGCZOYSGKTLB-UHFFFAOYSA-N
Formula: C10H20O
SMILES: CC1CCC(O)(C(C)C)CC1
Mol. weight [g/mol]: 156.27
CAS: 470-65-5

Physical Properties

Property code	Value	Unit	Source
gf	-94.69	kJ/mol	Joback Method
hf	-358.02	kJ/mol	Joback Method
hfus	8.83	kJ/mol	Joback Method
hvap	53.11	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.584		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2887.40	kPa	Joback Method
tb	535.06	K	Joback Method
tc	732.18	K	Joback Method
tf	275.32	K	Joback Method
vc	0.538	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	369.19	J/mol×K	535.06	Joback Method
cpg	386.16	J/mol×K	567.91	Joback Method
cpg	402.19	J/mol×K	600.77	Joback Method
cpg	417.37	J/mol×K	633.62	Joback Method
cpg	431.77	J/mol×K	666.47	Joback Method
cpg	445.48	J/mol×K	699.32	Joback Method
cpg	458.58	J/mol×K	732.18	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C470655&Units=SI
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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume