Cyclohexanol,5-(1,1-dimethylethyl)-2-methylene-t

Inchi: InChI=1S/C11H20O/c1-8-5-6-9(7-10(8)12)11(2,3)4/h9-10,12H,1,5-7H2,2-4H3/t9-,10+/m0
InchiKey: MKWJZCGGUSWUQL-VHSXEESVSA-N
Formula: C11H20O
SMILES: C=C1CCC(C(C)(C)C)CC1O
Mol. weight [g/mol]: 168.28
CAS: 19245-70-6

Physical Properties

Property code	Value	Unit	Source
gf	-22.42	kJ/mol	Joback Method
hf	-313.13	kJ/mol	Joback Method
hfus	12.67	kJ/mol	Joback Method
hvap	55.74	kJ/mol	Joback Method
ie	9.37 ± 0.02	eV	NIST Webbook
ie	9.37 ± 0.05	eV	NIST Webbook
log10ws	-3.07		Crippen Method
logp	2.750		Crippen Method
mcvol	156.560	ml/mol	McGowan Method
pc	2571.50	kPa	Joback Method
tb	554.07	K	Joback Method
tc	750.02	K	Joback Method
tf	293.79	K	Joback Method
vc	0.576	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	402.06	J/mol×K	554.07	Joback Method
cpg	479.03	J/mol×K	717.36	Joback Method
cpg	465.38	J/mol×K	684.70	Joback Method
cpg	450.89	J/mol×K	652.04	Joback Method
cpg	435.53	J/mol×K	619.39	Joback Method
cpg	419.26	J/mol×K	586.73	Joback Method
cpg	491.87	J/mol×K	750.02	Joback Method

dvisc	0.0001194	Pa×s	554.07	Joback Method
dvisc	0.0001900	Pa×s	510.69	Joback Method
dvisc	0.0003297	Pa×s	467.31	Joback Method
dvisc	0.0006401	Pa×s	423.93	Joback Method
dvisc	0.0014460	Pa×s	380.55	Joback Method
dvisc	0.0040285	Pa×s	337.17	Joback Method
dvisc	0.0151885	Pa×s	293.79	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=C19245706&Units=SI

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
ie:	Ionization energy
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