Cyclohexanol, 5-methyl-2-propyl, trans, cis

Inchi: InChI=1S/C10H20O/c1-3-4-9-6-5-8(2)7-10(9)11/h8-11H,3-7H2,1-2H3/t8-,9-,10+/m1/s1
InchiKey: VWXNPISBYOISDJ-BBBLOLIVSA-N
Formula: C10H20O
SMILES: CCCC1CCC(C)CC1O
Mol. weight [g/mol]: 156.27

Physical Properties

Property code	Value	Unit	Source
gf	-94.47	kJ/mol	Joback Method
hf	-388.32	kJ/mol	Joback Method
hfus	19.72	kJ/mol	Joback Method
hvap	54.34	kJ/mol	Joback Method
log10ws	-2.80		Crippen Method
logp	2.584		Crippen Method
mcvol	146.770	ml/mol	McGowan Method
pc	2637.96	kPa	Joback Method
rinpol	1187.00		NIST Webbook
rinpol	1187.00		NIST Webbook
tb	530.59	K	Joback Method
tc	716.30	K	Joback Method
tf	262.18	K	Joback Method
vc	0.545	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	370.12	J/mol×K	530.59	Joback Method
cpg	447.90	J/mol×K	685.35	Joback Method
cpg	433.83	J/mol×K	654.39	Joback Method
cpg	419.04	J/mol×K	623.44	Joback Method
cpg	403.49	J/mol×K	592.49	Joback Method
cpg	387.19	J/mol×K	561.54	Joback Method
cpg	461.25	J/mol×K	716.30	Joback Method
dvisc	0.0001533	Pa×s	530.59	Joback Method

dvisc	0.0002407	Pa×s	485.85	Joback Method
dvisc	0.0004142	Pa×s	441.12	Joback Method
dvisc	0.0008057	Pa×s	396.38	Joback Method
dvisc	0.0018562	Pa×s	351.65	Joback Method
dvisc	0.0054544	Pa×s	306.91	Joback Method
dvisc	0.0231540	Pa×s	262.18	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R578653&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
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume