1-Naphthalenol, 1,2,3,4-tetrahydro-2,5,8-trimethyl-

Other names: 2,5,8-Trimethyl-1,2,3,4-tetrahydro-1-naphthol
Inchi: InChI=1S/C13H18O/c1-8-4-5-9(2)12-11(8)7-6-10(3)13(12)14/h4-5,10,13-14H,6-7H2,1-3H
InchiKey: RJLAJQDKXWWUNG-UHFFFAOYSA-N
Formula: C13H18O
SMILES: Cc1ccc(C)c2c1CCC(C)C2O
Mol. weight [g/mol]: 190.28
CAS: 55591-08-7

Physical Properties

Property code	Value	Unit	Source
gf	46.22	kJ/mol	Joback Method
hf	-215.46	kJ/mol	Joback Method
hfus	23.49	kJ/mol	Joback Method
hvap	65.25	kJ/mol	Joback Method
log10ws	-3.82		Crippen Method
logp	2.919		Crippen Method
mcvol	165.280	ml/mol	McGowan Method
pc	2587.22	kPa	Joback Method
rinpol	1611.00		NIST Webbook
tb	636.98	K	Joback Method
tc	843.40	K	Joback Method
tf	371.25	K	Joback Method
vc	0.623	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	444.72	J/mol×K	636.98	Joback Method
cpg	513.79	J/mol×K	809.00	Joback Method
cpg	501.59	J/mol×K	774.59	Joback Method
cpg	488.61	J/mol×K	740.19	Joback Method
cpg	474.83	J/mol×K	705.79	Joback Method
cpg	460.21	J/mol×K	671.38	Joback Method
cpg	525.27	J/mol×K	843.40	Joback Method

dvisc	0.0001283	Pa×s	636.98	Joback Method
dvisc	0.0001737	Pa×s	592.69	Joback Method
dvisc	0.0002469	Pa×s	548.40	Joback Method
dvisc	0.0003735	Pa×s	504.12	Joback Method
dvisc	0.0006120	Pa×s	459.83	Joback Method
dvisc	0.0011138	Pa×s	415.54	Joback Method
dvisc	0.0023384	Pa×s	371.25	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=C55591087&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
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