

5,8-Dihydro-5,8-endomethylene-2-methyl-1,4-naph

Inchi:	InChI=1S/C12H12O2/c1-6-4-9(13)10-7-2-3-8(5-7)11(10)12(6)14/h2-4,7-8,13-14H,5H2,1H
InchiKey:	QODAUEJILFBJKF-UHFFFAOYSA-N
Formula:	C12H12O2
SMILES:	<chem>Cc1cc(O)c2c(c1O)C1C=CC2C1</chem>
Mol. weight [g/mol]:	188.22
CAS:	14944-13-9

Physical Properties

Property code	Value	Unit	Source
gf	-2.37	kJ/mol	Joback Method
hf	-222.50	kJ/mol	Joback Method
hfus	31.26	kJ/mol	Joback Method
hvap	71.88	kJ/mol	Joback Method
log10ws	-2.64		Crippen Method
logp	2.547		Crippen Method
mvol	141.900	ml/mol	McGowan Method
pc	4444.44	kPa	Joback Method
tb	680.21	K	Joback Method
tc	928.28	K	Joback Method
tf	540.06	K	Joback Method
vc	0.440	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	399.50	J/molxK	680.21	Joback Method
cpg	411.22	J/molxK	721.55	Joback Method
cpg	422.25	J/molxK	762.90	Joback Method
cpg	432.85	J/molxK	804.24	Joback Method
cpg	443.28	J/molxK	845.59	Joback Method
cpg	453.79	J/molxK	886.93	Joback Method
cpg	464.65	J/molxK	928.28	Joback Method
dvisc	0.0001520	Paxs	540.06	Joback Method
dvisc	0.0001031	Paxs	563.42	Joback Method

dvisc	0.0000721	Paxs	586.78	Joback Method
dvisc	0.0000519	Paxs	610.13	Joback Method
dvisc	0.0000382	Paxs	633.49	Joback Method
dvisc	0.0000288	Paxs	656.85	Joback Method
dvisc	0.0000221	Paxs	680.21	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14944139&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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