5,8-Endomethylene-5,8-dihydro-1,4-naphthohydro

Inchi: InChI=1S/C11H10O2/c12-8-3-4-9(13)11-7-2-1-6(5-7)10(8)11/h1-4,6-7,12-13H,5H2
InchiKey: PQZMLJBZPCMYDX-UHFFFAOYSA-N
Formula: C11H10O2
SMILES: Oc1ccc(O)c2c1C1C=CC2C1
Mol. weight [g/mol]: 174.20
CAS: 3090-47-9

Physical Properties

Property code	Value	Unit	Source
gf	-1.16	kJ/mol	Joback Method
hf	-190.39	kJ/mol	Joback Method
hfus	29.06	kJ/mol	Joback Method
hvap	68.99	kJ/mol	Joback Method
log10ws	-2.16		Crippen Method
logp	2.239		Crippen Method
mcvol	127.810	ml/mol	McGowan Method
pc	5183.17	kPa	Joback Method
tb	652.35	K	Joback Method
tc	905.23	K	Joback Method
tf	516.27	K	Joback Method
vc	0.384	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	352.76	J/mol×K	652.35	Joback Method
cpg	402.60	J/mol×K	863.08	Joback Method
cpg	393.19	J/mol×K	820.94	Joback Method
cpg	383.78	J/mol×K	778.79	Joback Method
cpg	374.09	J/mol×K	736.64	Joback Method
cpg	363.84	J/mol×K	694.50	Joback Method
cpg	412.28	J/mol×K	905.23	Joback Method
dvisc	0.0000292	Pa×s	652.35	Joback Method
dvisc	0.0000385	Pa×s	629.67	Joback Method

dvisc	0.0000519	Pa×s	606.99	Joback Method
dvisc	0.0000715	Pa×s	584.31	Joback Method
dvisc	0.0001011	Pa×s	561.63	Joback Method
dvisc	0.0001471	Pa×s	538.95	Joback Method
dvisc	0.0002214	Pa×s	516.27	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3090479&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume