Naphthalene, 1,2-dihydro-6-methyl-

Other names: 1,2-Dihydro-6-methylnaphthalene
Inchi: InChI=1S/C11H12/c1-9-6-7-10-4-2-3-5-11(10)8-9/h3,5-8H,2,4H2,1H3
InchiKey: VPCLWVMJFFVBKF-UHFFFAOYSA-N
Formula: C11H12
SMILES: Cc1ccc2c(c1)C=CCC2
Mol. weight [g/mol]: 144.21
CAS: 2717-47-7

Physical Properties

Property code	Value	Unit	Source
gf	221.21	kJ/mol	Joback Method
hf	87.98	kJ/mol	Joback Method
hfus	13.69	kJ/mol	Joback Method
hvap	44.37	kJ/mol	Joback Method
log10ws	-3.47		Crippen Method
logp	2.954		Crippen Method
mcvol	126.930	ml/mol	McGowan Method
pc	3269.04	kPa	Joback Method
rinpol	213.69		NIST Webbook
tb	502.56	K	Joback Method
tc	734.79	K	Joback Method
tf	284.61	K	Joback Method
vc	0.479	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.10	J/mol×K	502.56	Joback Method
cpg	337.25	J/mol×K	696.09	Joback Method
cpg	325.55	J/mol×K	657.38	Joback Method
cpg	312.95	J/mol×K	618.68	Joback Method
cpg	299.39	J/mol×K	579.97	Joback Method
cpg	284.80	J/mol×K	541.27	Joback Method
cpg	348.12	J/mol×K	734.79	Joback Method

dvisc	0.0003103	Pa×s	502.56	Joback Method
dvisc	0.0003695	Pa×s	466.24	Joback Method
dvisc	0.0004532	Pa×s	429.91	Joback Method
dvisc	0.0005772	Pa×s	393.59	Joback Method
dvisc	0.0007721	Pa×s	357.26	Joback Method
dvisc	0.0011033	Pa×s	320.94	Joback Method
dvisc	0.0017269	Pa×s	284.61	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=C2717477&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