Naphthalene,1,2,3,4,4a,5,6,8a-octahydro-4a, 8-dimethyl-2-[1-methylethyl]-

Inchi: InChI=1S/C15H26/c1-11(2)13-7-9-15(4)8-5-6-12(3)14(15)10-13/h6,11,13-14H,5,7-10H2,1

InchiKey: VPQBJIRQUUEAFC-UHFFFAOYSA-N

Formula: C15H26

SMILES: CC1=CCCC2(C)CCC(C(C)C)CC12

Mol. weight [g/mol]: 206.37

Physical Properties

Property code	Value	Unit	Source
gf	153.21	kJ/mol	Joback Method
hf	-196.04	kJ/mol	Joback Method
hfus	14.56	kJ/mol	Joback Method
hvap	48.60	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	4.805		Crippen Method
mcvol	196.190	ml/mol	McGowan Method
pc	1963.07	kPa	Joback Method
rinpol	1499.00		NIST Webbook
tb	572.43	K	Joback Method
tc	793.31	K	Joback Method
tf	298.55	K	Joback Method
vc	0.735	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	521.00	J/mol×K	572.43	Joback Method
cpg	545.14	J/mol×K	609.24	Joback Method
cpg	567.82	J/mol×K	646.06	Joback Method
cpg	589.17	J/mol×K	682.87	Joback Method
cpg	609.34	J/mol×K	719.68	Joback Method
cpg	628.49	J/mol×K	756.50	Joback Method
cpg	646.76	J/mol×K	793.31	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R515612&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

Legend

cpg:	Ideal gas heat capacity
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