octahydro-5,5,8a-trimethyl-2-methylene-1-naphthy

Inchi: InChI=1S/C16H24O/c1-12-6-7-14-15(2,3)9-5-10-16(14,4)13(12)8-11-17/h5,10-11,13-14H
InchiKey: GRDYWFXHRLYPQA-UHFFFAOYSA-N
Formula: C16H24O
SMILES: C=C1CCC2C(C)(C)CC=CC2(C)C1CC=O
Mol. weight [g/mol]: 232.36

Physical Properties

Property code	Value	Unit	Source
gf	114.06	kJ/mol	Joback Method
hf	-206.37	kJ/mol	Joback Method
hfus	16.96	kJ/mol	Joback Method
hvap	55.97	kJ/mol	Joback Method
log10ws	-4.33		Crippen Method
logp	4.150		Crippen Method
mcvol	207.550	ml/mol	McGowan Method
pc	1991.21	kPa	Joback Method
ripol	2407.00		NIST Webbook
ripol	2407.00		NIST Webbook
tb	634.16	K	Joback Method
tc	857.91	K	Joback Method
tf	387.64	K	Joback Method
vc	0.794	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	579.48	J/mol×K	634.16	Joback Method
cpg	600.62	J/mol×K	671.45	Joback Method
cpg	620.68	J/mol×K	708.74	Joback Method
cpg	639.90	J/mol×K	746.04	Joback Method
cpg	658.50	J/mol×K	783.33	Joback Method
cpg	676.74	J/mol×K	820.62	Joback Method
cpg	694.84	J/mol×K	857.91	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=R344202&Units=SI

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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume