1,2,3,4,5,6-Hexahydro-1,1,5,5-tetramethyl-2,4a-me

Other names: 1,2,3,4,5,6-hexahydro-1,1,5,5-tetramethyl-7H-2,4a-methanonaphthalen-7-one
Inchi: InChI=1S/C15H22O/c1-13(2)9-11(16)7-12-14(3,4)10-5-6-15(12,13)8-10/h7,10H,5-6,8-9H
InchiKey: LGSKOQUJWNADCQ-UHFFFAOYSA-N
Formula: C15H22O
SMILES: CC1(C)C2=CC(=O)CC(C)(C)C23CCC1C3
Mol. weight [g/mol]: 218.33
CAS: 23747-14-0

Physical Properties

Property code	Value	Unit	Source
gf	107.03	kJ/mol	Joback Method
hf	-212.86	kJ/mol	Joback Method
hfus	7.33	kJ/mol	Joback Method
hvap	50.51	kJ/mol	Joback Method
log10ws	-3.95		Crippen Method
logp	3.738		Crippen Method
mcvol	186.900	ml/mol	McGowan Method
pc	2356.49	kPa	Joback Method
tb	639.37	K	Joback Method
tc	887.45	K	Joback Method
tf	454.55	K	Joback Method
vc	0.717	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.19	J/mol×K	639.37	Joback Method
cpg	559.31	J/mol×K	680.72	Joback Method
cpg	579.56	J/mol×K	722.06	Joback Method
cpg	599.42	J/mol×K	763.41	Joback Method
cpg	619.37	J/mol×K	804.76	Joback Method
cpg	639.89	J/mol×K	846.10	Joback Method
cpg	661.47	J/mol×K	887.45	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=C23747140&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume