Octahydro-7-methyl-3-methylene-4-(1-methylethyl

Inchi: InChI=1S/C14H22/c1-8(2)14-7-12-6-11(5-9(12)3)13(14)10(14)4/h8-9,11-13H,4-7H2,1-3H
InchiKey: VDDLIULJFLXIIR-UHFFFAOYSA-N
Formula: C14H22
SMILES: C=C1C2C3CC(C)C(C3)CC12C(C)C
Mol. weight [g/mol]: 190.32

Physical Properties

Property code	Value	Unit	Source
gf	278.98	kJ/mol	Joback Method
hf	-60.37	kJ/mol	Joback Method
hfus	17.58	kJ/mol	Joback Method
hvap	44.50	kJ/mol	Joback Method
log10ws	-3.77		Crippen Method
logp	3.881		Crippen Method
mcvol	171.240	ml/mol	McGowan Method
pc	2131.49	kPa	Joback Method
rinpol	1461.00		NIST Webbook
tb	529.56	K	Joback Method
tc	738.11	K	Joback Method
tf	315.46	K	Joback Method
vc	0.664	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	448.80	J/mol×K	529.56	Joback Method
cpg	470.27	J/mol×K	564.32	Joback Method
cpg	490.28	J/mol×K	599.08	Joback Method
cpg	508.99	J/mol×K	633.83	Joback Method
cpg	526.58	J/mol×K	668.59	Joback Method
cpg	543.21	J/mol×K	703.35	Joback Method
cpg	559.04	J/mol×K	738.11	Joback Method

Sources

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=R577447&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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