9,13-Pentadecadien-2-one, 6,10,14-trimethyl-, (E)-

Other names: Dihydrofarnesyl acetone
Inchi: InChI=1S/C18H32O/c1-15(2)9-6-10-16(3)11-7-12-17(4)13-8-14-18(5)19/h9,11,17H,6-8,1
InchiKey: INPFUDIQDUQFDI-LFIBNONCSA-N
Formula: C18H32O
SMILES: CC(=O)CCCC(C)CCC=C(C)CCC=C(C)C
Mol. weight [g/mol]: 264.45
CAS: 31138-32-6

Physical Properties

Property code	Value	Unit	Source
gf	112.66	kJ/mol	Joback Method
hf	-317.85	kJ/mol	Joback Method
hfus	38.24	kJ/mol	Joback Method
hvap	62.10	kJ/mol	Joback Method
log10ws	-6.10		Crippen Method
logp	5.855		Crippen Method
mcvol	257.450	ml/mol	McGowan Method
pc	1311.80	kPa	Joback Method
rinpol	1852.00		NIST Webbook
rinpol	1852.00		NIST Webbook
tb	672.75	K	Joback Method
tc	856.14	K	Joback Method
tf	289.47	K	Joback Method
vc	1.006	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	714.93	J/mol×K	672.75	Joback Method
cpg	733.75	J/mol×K	703.31	Joback Method
cpg	751.65	J/mol×K	733.88	Joback Method
cpg	768.67	J/mol×K	764.44	Joback Method
cpg	784.86	J/mol×K	795.01	Joback Method
cpg	800.27	J/mol×K	825.57	Joback Method

cpg	814.96	J/mol×K	856.14	Joback Method

Sources

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=C31138326&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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