1,1,6-trimethyl-3-methylene-2-(3,6,10,13,14-pentar

Other names: (2R,6S)-1,1,6-Trimethyl-3-methylene-2-[(E)-3,6,10,13,14-pentamethyl-3-vinyl-4-pentadec
Inchi: InChI=1S/C32H58/c1-12-32(11,23-21-30-28(7)18-19-29(8)31(30,9)10)22-20-26(5)15-13-
InchiKey: MPEPBAMJSYOXJV-LSDHQDQOSA-N
Formula: C32H58
SMILES: C=CC(C)(C=CC(C)CCCC(C)CCC(C)C(C)C)CCC1C(=C)CCC(C)C1(C)C
Mol. weight [g/mol]: 442.80

Physical Properties

Property code	Value	Unit	Source
gf	436.32	kJ/mol	Joback Method
hf	-377.91	kJ/mol	Joback Method
hfus	42.57	kJ/mol	Joback Method
hvap	82.08	kJ/mol	Joback Method
log10ws	-10.74		Crippen Method
logp	10.658		Crippen Method
mcvol	437.980	ml/mol	McGowan Method
pc	643.53	kPa	Joback Method
rinpol	2669.00		NIST Webbook
tb	937.02	K	Joback Method
tc	1148.18	K	Joback Method
tf	422.46	K	Joback Method
vc	1.667	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1538.40	J/mol×K	937.02	Joback Method
cpg	1566.74	J/mol×K	972.21	Joback Method
cpg	1594.33	J/mol×K	1007.41	Joback Method
cpg	1621.37	J/mol×K	1042.60	Joback Method
cpg	1648.05	J/mol×K	1077.80	Joback Method
cpg	1674.55	J/mol×K	1112.99	Joback Method
cpg	1701.07	J/mol×K	1148.18	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U373940&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