1-[(5E)-1,4,7,10,14,15-hexamethyl-11-methylene-4-
Isomer # 1

Inchi: InChI=1S/C34H58/c1-13-34(12,23-21-30(8)32-19-18-31(9)33(10,11)24-32)22-20-26(4)14
InchiKey: IBJRNORNAWSUOG-LSDHQDQOSA-N
Formula: C34H58
SMILES: C=CC(C)(C=CC(C)CCC(C)C(=C)CCC(C)C(=C)C)CCC(C)C1=CC(C)(C)C(C)CC1
Mol. weight [g/mol]: 466.82

Physical Properties

Property code	Value	Unit	Source
gf	586.70	kJ/mol	Joback Method
hf	-205.50	kJ/mol	Joback Method
hfus	43.49	kJ/mol	Joback Method
hvap	86.46	kJ/mol	Joback Method
log10ws	-11.53		Crippen Method
logp	11.135		Crippen Method
mcvol	457.560	ml/mol	McGowan Method
pc	623.44	kPa	Joback Method
rinpol	2745.00		NIST Webbook
rinpol	2748.00		NIST Webbook
tb	985.55	K	Joback Method
tc	1206.92	K	Joback Method
tf	417.40	K	Joback Method
vc	1.746	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1613.52	J/mol×K	985.55	Joback Method
cpg	1642.96	J/mol×K	1022.45	Joback Method
cpg	1672.09	J/mol×K	1059.34	Joback Method
cpg	1701.15	J/mol×K	1096.24	Joback Method
cpg	1730.39	J/mol×K	1133.13	Joback Method
cpg	1760.07	J/mol×K	1170.03	Joback Method
cpg	1790.43	J/mol×K	1206.92	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=R586377&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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume