1-Methyl-4-(1-methylethenyl)-3-[1-methyl-1-(4-met cyclohexene

Other names: 4-Isopropenyl-1-methyl-3-[1,5,9-trimethyl-1-(4-methyl-hex-5-enyl)-dec-4-enyl]-cyclohexen
Inchi: InChI=1S/C30H52/c1-10-25(6)16-12-20-30(9,21-13-17-26(7)15-11-14-23(2)3)29-22-27(8
InchiKey: PLCJWBGFRGRJFS-YZSQISJMSA-N
Formula: C30H52
SMILES: C=CC(C)CCCC(C)(CCC=C(C)CCCC(C)C)C1C=C(C)CCC1C(=C)C
Mol. weight [g/mol]: 412.73

Physical Properties

Property code	Value	Unit	Source
gf	475.55	kJ/mol	Joback Method
hf	-253.05	kJ/mol	Joback Method
hfus	47.76	kJ/mol	Joback Method
hvap	80.15	kJ/mol	Joback Method
log10ws	-10.48		Crippen Method
logp	10.087		Crippen Method
mcvol	405.500	ml/mol	McGowan Method
pc	721.08	kPa	Joback Method
tb	897.99	K	Joback Method
tc	1103.39	K	Joback Method
tf	380.18	K	Joback Method
vc	1.554	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1371.36	J/mol×K	897.99	Joback Method
cpg	1395.29	J/mol×K	932.22	Joback Method
cpg	1417.89	J/mol×K	966.46	Joback Method
cpg	1439.27	J/mol×K	1000.69	Joback Method
cpg	1459.52	J/mol×K	1034.92	Joback Method
cpg	1478.78	J/mol×K	1069.16	Joback Method
cpg	1497.14	J/mol×K	1103.39	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=U370415&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