(4E)-3,6,9,10,13,14-hexamethyl-3-(3,4,7,8-tetrameth

Inchi: InChI=1S/C33H64/c1-13-26(5)15-17-30(9)32(11)22-24-33(12,14-2)23-21-27(6)16-18-29(

InchiKey: NBOHZPQWJWZHLT-XTQSDGFTSA-N

Formula: C33H64

SMILES: C=CC(C)(C=CC(C)CCC(C)C(C)CCC(C)C(C)C)CCC(C)C(C)CCC(C)CC

Mol. weight [g/mol]: 460.86

Physical Properties

Property code	Value	Unit	Source
gf	378.36	kJ/mol	Joback Method
hf	-532.79	kJ/mol	Joback Method
hfus	44.55	kJ/mol	Joback Method
hvap	83.94	kJ/mol	Joback Method
log10ws	-11.17		Crippen Method
logp	11.374		Crippen Method
mcvol	467.230	ml/mol	McGowan Method
pc	564.47	kPa	Joback Method
rinpol	2761.00		NIST Webbook
rinpol	2761.00		NIST Webbook
tb	948.53	K	Joback Method
tc	1162.60	K	Joback Method
tf	337.25	K	Joback Method
vc	1.786	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1630.81	J/mol×K	948.53	Joback Method
cpg	1657.26	J/mol×K	984.21	Joback Method
cpg	1682.29	J/mol×K	1019.89	Joback Method
cpg	1706.05	J/mol×K	1055.56	Joback Method
cpg	1728.66	J/mol×K	1091.24	Joback Method
cpg	1750.28	J/mol×K	1126.92	Joback Method
cpg	1771.04	J/mol×K	1162.60	Joback Method
dvisc	0.0086511	Pa×s	337.25	Joback Method

dvisc	0.0006030	Pa×s	439.13	Joback Method
dvisc	0.0001146	Pa×s	541.01	Joback Method
dvisc	0.0000369	Pa×s	642.89	Joback Method
dvisc	0.0000162	Pa×s	744.77	Joback Method
dvisc	0.0000087	Pa×s	846.65	Joback Method
dvisc	0.0000053	Pa×s	948.53	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R586466&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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