1,14-Pentadecadiene, 2,4,6,8,10,12,14-heptamethyl

Inchi: InChI=1S/C22H42/c1-16(2)10-18(5)12-20(7)14-22(9)15-21(8)13-19(6)11-17(3)4/h18-22H

InchiKey: RAOHICWAYMIARC-UHFFFAOYSA-N

Formula: C22H42

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

Mol. weight [g/mol]: 306.57

Physical Properties

Property code	Value	Unit	Source
gf	280.74	kJ/mol	Joback Method
hf	-292.53	kJ/mol	Joback Method
hfus	29.94	kJ/mol	Joback Method
hvap	61.45	kJ/mol	Joback Method
log10ws	-7.53		Crippen Method
logp	7.660		Crippen Method
mcvol	312.240	ml/mol	McGowan Method
pc	979.01	kPa	Joback Method
rinpol	1828.00		NIST Webbook
tb	693.68	K	Joback Method
tc	870.88	K	Joback Method
tf	231.26	K	Joback Method
vc	1.202	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	913.46	J/mol×K	693.68	Joback Method
cpg	935.86	J/mol×K	723.21	Joback Method
cpg	957.19	J/mol×K	752.75	Joback Method
cpg	977.48	J/mol×K	782.28	Joback Method
cpg	996.79	J/mol×K	811.81	Joback Method
cpg	1015.14	J/mol×K	841.35	Joback Method
cpg	1032.60	J/mol×K	870.88	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=R568062&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