1-Pentadecene, 2,4,6,8,10,12-hexamethyl

Inchi: InChI=1S/C21H42/c1-9-10-17(4)12-19(6)14-21(8)15-20(7)13-18(5)11-16(2)3/h17-21H,2,9

InchiKey: BAGMQIWLSCXTAI-UHFFFAOYSA-N

Formula: C21H42

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

Mol. weight [g/mol]: 294.56

Physical Properties

Property code	Value	Unit	Source
gf	193.03	kJ/mol	Joback Method
hf	-387.53	kJ/mol	Joback Method
hfus	29.94	kJ/mol	Joback Method
hvap	59.81	kJ/mol	Joback Method
log10ws	-7.26		Crippen Method
logp	7.494		Crippen Method
mcvol	302.450	ml/mol	McGowan Method
pc	1009.73	kPa	Joback Method
rinpol	1754.00		NIST Webbook
tb	674.24	K	Joback Method
tc	847.73	K	Joback Method
tf	235.71	K	Joback Method
vc	1.163	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	877.85	J/mol×K	674.24	Joback Method
cpg	900.24	J/mol×K	703.16	Joback Method
cpg	921.59	J/mol×K	732.07	Joback Method
cpg	941.94	J/mol×K	760.99	Joback Method
cpg	961.32	J/mol×K	789.90	Joback Method
cpg	979.78	J/mol×K	818.82	Joback Method
cpg	997.35	J/mol×K	847.73	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R568186&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