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

Inchi: InChI=1S/C19H38/c1-14(2)9-16(5)11-18(7)13-19(8)12-17(6)10-15(3)4/h15-19H,1,9-13H2
InchiKey: NLEVEDRIYQRMNS-UHFFFAOYSA-N
Formula: C19H38
SMILES: C=C(C)CC(C)CC(C)CC(C)CC(C)CC(C)C
Mol. weight [g/mol]: 266.50

Physical Properties

Property code	Value	Unit	Source
gf	176.19	kJ/mol	Joback Method
hf	-346.25	kJ/mol	Joback Method
hfus	24.76	kJ/mol	Joback Method
hvap	55.36	kJ/mol	Joback Method
log10ws	-6.42		Crippen Method
logp	6.713		Crippen Method
mcvol	274.270	ml/mol	McGowan Method
pc	1145.21	kPa	Joback Method
rinpol	1580.00		NIST Webbook
tb	628.48	K	Joback Method
tc	802.82	K	Joback Method
tf	213.17	K	Joback Method
vc	1.052	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	759.68	J/mol×K	628.48	Joback Method
cpg	781.59	J/mol×K	657.54	Joback Method
cpg	802.49	J/mol×K	686.59	Joback Method
cpg	822.43	J/mol×K	715.65	Joback Method
cpg	841.44	J/mol×K	744.71	Joback Method
cpg	859.54	J/mol×K	773.76	Joback Method
cpg	876.77	J/mol×K	802.82	Joback Method

Sources

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=R568191&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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