(Z)-2,6,10-Trimethylhexadeca-1,3-diene

Inchi: InChI=1S/C19H36/c1-6-7-8-9-13-18(4)15-11-16-19(5)14-10-12-17(2)3/h10,12,18-19H,2,6
InchiKey: ULHQOMQHIURLGG-BENRWUELSA-N
Formula: C19H36
SMILES: C=C(C)C=CCC(C)CCCC(C)CCCCCC
Mol. weight [g/mol]: 264.49

Physical Properties

Property code	Value	Unit	Source
gf	263.73	kJ/mol	Joback Method
hf	-213.19	kJ/mol	Joback Method
hfus	35.53	kJ/mol	Joback Method
hvap	56.48	kJ/mol	Joback Method
log10ws	-7.00		Crippen Method
logp	6.922		Crippen Method
mcvol	269.970	ml/mol	McGowan Method
pc	1167.22	kPa	Joback Method
rinpol	1856.00		NIST Webbook
tb	633.96	K	Joback Method
tc	806.16	K	Joback Method
tf	253.09	K	Joback Method
vc	1.050	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	738.81	J/mol×K	633.96	Joback Method
cpg	759.34	J/mol×K	662.66	Joback Method
cpg	778.94	J/mol×K	691.36	Joback Method
cpg	797.64	J/mol×K	720.06	Joback Method
cpg	815.48	J/mol×K	748.76	Joback Method
cpg	832.51	J/mol×K	777.46	Joback Method
cpg	848.77	J/mol×K	806.16	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R549363&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