2-Pentadecene, 4,6,8,10,12,14-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/h9-10,16-21
InchiKey: YCPVIGVHWTUUKC-MDZDMXLPSA-N
Formula: C21H42
SMILES: CC=CC(C)CC(C)CC(C)CC(C)CC(C)CC(C)C
Mol. weight [g/mol]: 294.56

Physical Properties

Property code	Value	Unit	Source
gf	191.52	kJ/mol	Joback Method
hf	-391.23	kJ/mol	Joback Method
hfus	29.21	kJ/mol	Joback Method
hvap	59.97	kJ/mol	Joback Method
log10ws	-7.02		Crippen Method
logp	7.350		Crippen Method
mcvol	302.450	ml/mol	McGowan Method
pc	1018.13	kPa	Joback Method
rinpol	1728.00		NIST Webbook
rinpol	1728.00		NIST Webbook
tb	681.40	K	Joback Method
tc	858.18	K	Joback Method
tf	231.35	K	Joback Method
vc	1.155	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	881.74	J/mol×K	681.40	Joback Method
cpg	904.28	J/mol×K	710.86	Joback Method
cpg	925.75	J/mol×K	740.33	Joback Method
cpg	946.20	J/mol×K	769.79	Joback Method
cpg	965.66	J/mol×K	799.25	Joback Method
cpg	984.17	J/mol×K	828.72	Joback Method
cpg	1001.79	J/mol×K	858.18	Joback Method
dvisc	0.0573587	Pa×s	231.35	Joback Method

dvisc	0.0041088	Pa×s	306.36	Joback Method
dvisc	0.0008302	Pa×s	381.37	Joback Method
dvisc	0.0002838	Pa×s	456.38	Joback Method
dvisc	0.0001313	Pa×s	531.38	Joback Method
dvisc	0.0000735	Pa×s	606.39	Joback Method
dvisc	0.0000468	Pa×s	681.40	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=R568339&Units=SI

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