1-Hexadecene, 6-ethyl

Inchi: InChI=1S/C18H36/c1-4-7-9-10-11-12-13-15-17-18(6-3)16-14-8-5-2/h5,18H,2,4,6-17H2,1,
InchiKey: ALYBJBXLDFZVLN-UHFFFAOYSA-N
Formula: C18H36
SMILES: C=CCCCC(CC)CCCCCCCCCC
Mol. weight [g/mol]: 252.48

Physical Properties

Property code	Value	Unit	Source
gf	186.08	kJ/mol	Joback Method
hf	-294.70	kJ/mol	Joback Method
hfus	37.57	kJ/mol	Joback Method
hvap	54.60	kJ/mol	Joback Method
log10ws	-6.97		Crippen Method
logp	6.900		Crippen Method
mcvol	260.180	ml/mol	McGowan Method
pc	1192.35	kPa	Joback Method
tb	607.48	K	Joback Method
tc	770.34	K	Joback Method
tf	275.86	K	Joback Method
vc	1.018	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	701.50	J/mol×K	607.48	Joback Method
cpg	793.24	J/mol×K	743.20	Joback Method
cpg	776.45	J/mol×K	716.06	Joback Method
cpg	758.90	J/mol×K	688.91	Joback Method
cpg	740.58	J/mol×K	661.77	Joback Method
cpg	721.46	J/mol×K	634.62	Joback Method
cpg	809.31	J/mol×K	770.34	Joback Method
dvisc	0.0001193	Pa×s	607.48	Joback Method
dvisc	0.0001653	Pa×s	552.21	Joback Method
dvisc	0.0002462	Pa×s	496.94	Joback Method

dvisc	0.0004052	Pa×s	441.67	Joback Method
dvisc	0.0007688	Pa×s	386.40	Joback Method
dvisc	0.0018068	Pa×s	331.13	Joback Method
dvisc	0.0059795	Pa×s	275.86	Joback Method

Sources

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=R46936&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume