6,11-dimethylheptadecane

Inchi: InChI=1S/C19H40/c1-5-7-9-11-15-19(4)17-13-12-16-18(3)14-10-8-6-2/h18-19H,5-17H2,1
InchiKey: NSKGILSVNCZUJY-UHFFFAOYSA-N
Formula: C19H40
SMILES: CCCCCCC(C)CCCCC(C)CCCCC
Mol. weight [g/mol]: 268.52

Physical Properties

Property code	Value	Unit	Source
gf	104.22	kJ/mol	Joback Method
hf	-446.05	kJ/mol	Joback Method
hfus	37.92	kJ/mol	Joback Method
hvap	57.11	kJ/mol	Joback Method
log10ws	-7.29		Crippen Method
logp	7.370		Crippen Method
mcvol	278.570	ml/mol	McGowan Method
pc	1092.10	kPa	Joback Method
rinpol	1794.00		NIST Webbook
rinpol	1794.00		NIST Webbook
rinpol	1794.00		NIST Webbook
tb	633.24	K	Joback Method
tc	796.51	K	Joback Method
tf	273.89	K	Joback Method
vc	1.087	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	782.01	J/mol×K	633.24	Joback Method
cpg	803.08	J/mol×K	660.45	Joback Method
cpg	823.28	J/mol×K	687.66	Joback Method
cpg	842.63	J/mol×K	714.87	Joback Method
cpg	861.15	J/mol×K	742.09	Joback Method
cpg	878.88	J/mol×K	769.30	Joback Method
cpg	895.83	J/mol×K	796.51	Joback Method

dvisc	0.0085960	Pa×s	273.89	Joback Method
dvisc	0.0020674	Pa×s	333.78	Joback Method
dvisc	0.0007671	Pa×s	393.67	Joback Method
dvisc	0.0003698	Pa×s	453.56	Joback Method
dvisc	0.0002114	Pa×s	513.46	Joback Method
dvisc	0.0001358	Pa×s	573.35	Joback Method
dvisc	0.0000949	Pa×s	633.24	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=R261677&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
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