

6,12-dimethylheptadecane

Inchi: InChI=1S/C19H40/c1-5-7-10-14-18(3)16-12-9-13-17-19(4)15-11-8-6-2/h18-19H,5-17H2,1
InchiKey: FGWSGKFDNGVEJD-UHFFFAOYSA-N
Formula: C19H40
SMILES: CCCCC(C)CCCCC(C)CCCC
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
mvol	278.570	ml/mol	McGowan Method
pc	1092.10	kPa	Joback Method
rinpol	1796.00		NIST Webbook
rinpol	1796.00		NIST Webbook
tb	633.24	K	Joback Method
tc	796.51	K	Joback Method
tf	273.89	K	Joback Method
vc	1.087	m ³ /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	Paxs	273.89	Joback Method

dvisc	0.0020674	Paxs	333.78	Joback Method
dvisc	0.0007671	Paxs	393.67	Joback Method
dvisc	0.0003698	Paxs	453.56	Joback Method
dvisc	0.0002114	Paxs	513.46	Joback Method
dvisc	0.0001358	Paxs	573.35	Joback Method
dvisc	0.0000949	Paxs	633.24	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R261682&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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

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