

6,10-dimethylpentadecane

Inchi:	InChI=1S/C17H36/c1-5-7-9-12-16(3)14-11-15-17(4)13-10-8-6-2/h16-17H,5-15H2,1-4H3
InchiKey:	AIDRTKKRGRYADO-UHFFFAOYSA-N
Formula:	C17H36
SMILES:	CCCCC(C)CCCC(C)CCCC
Mol. weight [g/mol]:	240.47

Physical Properties

Property code	Value	Unit	Source
gf	87.38	kJ/mol	Joback Method
hf	-404.77	kJ/mol	Joback Method
hfus	32.74	kJ/mol	Joback Method
hvap	52.66	kJ/mol	Joback Method
log10ws	-6.46		Crippen Method
logp	6.590		Crippen Method
mcvol	250.390	ml/mol	McGowan Method
pc	1245.09	kPa	Joback Method
rinsol	1593.00		NIST Webbook
tb	587.48	K	Joback Method
tc	750.84	K	Joback Method
tf	251.35	K	Joback Method
vc	0.976	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	667.43	J/molxK	587.48	Joback Method
cpg	687.74	J/molxK	614.71	Joback Method
cpg	707.22	J/molxK	641.93	Joback Method
cpg	725.91	J/molxK	669.16	Joback Method
cpg	743.81	J/molxK	696.38	Joback Method
cpg	760.95	J/molxK	723.61	Joback Method
cpg	777.36	J/molxK	750.84	Joback Method
dvisc	0.0110440	Paxs	251.35	Joback Method
dvisc	0.0026149	Paxs	307.37	Joback Method

dvisc	0.0009653	Paxs	363.39	Joback Method
dvisc	0.0004651	Paxs	419.41	Joback Method
dvisc	0.0002661	Paxs	475.44	Joback Method
dvisc	0.0001713	Paxs	531.46	Joback Method
dvisc	0.0001199	Paxs	587.48	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=R301101&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

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