

# Heptadecane, 2,3-dimethyl-

<b>Other names:</b>	5-Methyloctadecane
<b>Inchi:</b>	InChI=1S/C19H40/c1-5-6-7-8-9-10-11-12-13-14-15-16-17-19(4)18(2)3/h18-19H,5-17H2,1
<b>InchiKey:</b>	LNMKTLJTVALPBD-UHFFFAOYSA-N
<b>Formula:</b>	C19H40
<b>SMILES:</b>	CCCCCCCCCCCCCCC(C)C(C)C
<b>Mol. weight [g/mol]:</b>	268.52
<b>CAS:</b>	61868-03-9

## 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
tb	633.24	K	Joback Method
tc	796.51	K	Joback Method
tf	273.89	K	Joback Method
vc	1.087	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	878.88	J/molxK	769.30	Joback Method
cpg	861.15	J/molxK	742.09	Joback Method
cpg	842.63	J/molxK	714.87	Joback Method
cpg	823.28	J/molxK	687.66	Joback Method
cpg	803.08	J/molxK	660.45	Joback Method
cpg	782.01	J/molxK	633.24	Joback Method
cpg	895.83	J/molxK	796.51	Joback Method
dvisc	0.0085960	Paxs	273.89	Joback Method

dvisc	0.0000949	Paxs	633.24	Joback Method
dvisc	0.0001358	Paxs	573.35	Joback Method
dvisc	0.0002114	Paxs	513.46	Joback Method
dvisc	0.0003698	Paxs	453.56	Joback Method
dvisc	0.0007671	Paxs	393.67	Joback Method
dvisc	0.0020674	Paxs	333.78	Joback Method
hvapt	64.10	kJ/mol	522.50	NIST Webbook
hvapt	67.20	kJ/mol	545.50	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C61868039&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C61868039&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>hvapt:</b>	Enthalpy of vaporization at a given temperature
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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