

# 5-Ethyl-5-methylheptadecane

<b>Inchi:</b>	InChI=1S/C20H42/c1-5-8-10-11-12-13-14-15-16-17-19-20(4,7-3)18-9-6-2/h5-19H2,1-4H3
<b>InchiKey:</b>	UXZXDZVMTNPUDB-UHFFFAOYSA-N
<b>Formula:</b>	C20H42
<b>SMILES:</b>	CCCCCCCCCCCC(C)(CC)CCCC
<b>Mol. weight [g/mol]:</b>	282.55

## Physical Properties

Property code	Value	Unit	Source
gf	120.36	kJ/mol	Joback Method
hf	-464.88	kJ/mol	Joback Method
hfus	40.14	kJ/mol	Joback Method
hvap	58.82	kJ/mol	Joback Method
log10ws	-7.95		Crippen Method
logp	7.904		Crippen Method
mvol	292.660	ml/mol	McGowan Method
pc	1027.94	kPa	Joback Method
rinpol	1911.00		NIST Webbook
rinpol	1911.00		NIST Webbook
tb	653.77	K	Joback Method
tc	818.91	K	Joback Method
tf	317.58	K	Joback Method
vc	1.145	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	842.36	J/molxK	653.77	Joback Method
cpg	940.45	J/molxK	791.39	Joback Method
cpg	922.58	J/molxK	763.87	Joback Method
cpg	903.87	J/molxK	736.34	Joback Method
cpg	884.29	J/molxK	708.82	Joback Method
cpg	863.80	J/molxK	681.29	Joback Method
cpg	957.52	J/molxK	818.91	Joback Method
dvisc	0.0000837	Paxs	653.77	Joback Method

dvisc	0.0001186	Paxs	597.74	Joback Method
dvisc	0.0001807	Paxs	541.71	Joback Method
dvisc	0.0003035	Paxs	485.67	Joback Method
dvisc	0.0005835	Paxs	429.64	Joback Method
dvisc	0.0013647	Paxs	373.61	Joback Method
dvisc	0.0043077	Paxs	317.58	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360425&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360425&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>

## 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>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>rinpol:</b>	Non-polar retention indices
<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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