

# 3,4,15-trimethylheptadecane

<b>Inchi:</b>	InChI=1S/C20H42/c1-6-18(3)16-14-12-10-8-9-11-13-15-17-20(5)19(4)7-2/h18-20H,6-17H
<b>InchiKey:</b>	UISQJSIYMANYNT-UHFFFAOYSA-N
<b>Formula:</b>	C20H42
<b>SMILES:</b>	CCC(C)CCCCCCCCCCC(C)C(C)CC
<b>Mol. weight [g/mol]:</b>	282.55

## Physical Properties

Property code	Value	Unit	Source
gf	110.20	kJ/mol	Joback Method
hf	-471.97	kJ/mol	Joback Method
hfus	36.99	kJ/mol	Joback Method
hvap	58.95	kJ/mol	Joback Method
log10ws	-7.47		Crippen Method
logp	7.616		Crippen Method
mcvol	292.660	ml/mol	McGowan Method
pc	1031.25	kPa	Joback Method
rinsol	1922.00		NIST Webbook
tb	655.68	K	Joback Method
tc	821.33	K	Joback Method
tf	270.16	K	Joback Method
vc	1.137	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	841.48	J/molxK	655.68	Joback Method
cpg	941.05	J/molxK	793.73	Joback Method
cpg	922.89	J/molxK	766.12	Joback Method
cpg	903.88	J/molxK	738.51	Joback Method
cpg	883.99	J/molxK	710.90	Joback Method
cpg	863.20	J/molxK	683.29	Joback Method
cpg	958.39	J/molxK	821.33	Joback Method
dvisc	0.0000778	Paxs	655.68	Joback Method
dvisc	0.0001140	Paxs	591.43	Joback Method

dvisc	0.0001834	Paxs	527.17	Joback Method
dvisc	0.0003367	Paxs	462.92	Joback Method
dvisc	0.0007518	Paxs	398.67	Joback Method
dvisc	0.0022855	Paxs	334.41	Joback Method
dvisc	0.0117916	Paxs	270.16	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R273600&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R273600&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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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