

# Tridecane, 4,6,8,10-tetramethyl, # 1

<b>Inchi:</b>	InChI=1S/C17H36/c1-7-9-14(3)11-16(5)13-17(6)12-15(4)10-8-2/h14-17H,7-13H2,1-6H3
<b>InchiKey:</b>	WFWUWFLROPIHOH-UHFFFAOYSA-N
<b>Formula:</b>	C17H36
<b>SMILES:</b>	CCCC(C)CC(C)CC(C)CC(C)CCC
<b>Mol. weight [g/mol]:</b>	240.47

## Physical Properties

Property code	Value	Unit	Source
gf	82.50	kJ/mol	Joback Method
hf	-415.33	kJ/mol	Joback Method
hfus	25.69	kJ/mol	Joback Method
hvap	51.88	kJ/mol	Joback Method
log10ws	-5.97		Crippen Method
logp	6.301		Crippen Method
mcvol	250.390	ml/mol	McGowan Method
pc	1259.27	kPa	Joback Method
rinpol	1462.00		NIST Webbook
rinpol	1462.00		NIST Webbook
tb	586.60	K	Joback Method
tc	755.14	K	Joback Method
tf	221.35	K	Joback Method
vc	0.964	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	667.94	J/molxK	586.60	Joback Method
cpg	764.54	J/molxK	727.05	Joback Method
cpg	746.90	J/molxK	698.96	Joback Method
cpg	728.45	J/molxK	670.87	Joback Method
cpg	709.16	J/molxK	642.78	Joback Method
cpg	688.99	J/molxK	614.69	Joback Method
cpg	781.39	J/molxK	755.14	Joback Method
dvisc	0.0001049	Paxs	586.60	Joback Method

dvisc	0.0001576	Paxs	525.72	Joback Method
dvisc	0.0002635	Paxs	464.85	Joback Method
dvisc	0.0005141	Paxs	403.97	Joback Method
dvisc	0.0012720	Paxs	343.10	Joback Method
dvisc	0.0046514	Paxs	282.23	Joback Method
dvisc	0.0347064	Paxs	221.35	Joback Method

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R568517&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R568517&amp;Units=SI</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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