

# 1-Tridecene, 2,4,6,8,10-pentamethyl, # 1

**Inchi:** InChI=1S/C18H36/c1-8-9-15(4)11-17(6)13-18(7)12-16(5)10-14(2)3/h15-18H,2,8-13H2,1,  
**InchiKey:** ZTCIQBPVONMRJS-UHFFFAOYSA-N  
**Formula:** C18H36  
**SMILES:** C=C(C)CC(C)CC(C)CC(C)CC(C)CCC  
**Mol. weight [g/mol]:** 252.48

## Physical Properties

Property code	Value	Unit	Source
gf	170.21	kJ/mol	Joback Method
hf	-320.33	kJ/mol	Joback Method
hfus	25.69	kJ/mol	Joback Method
hvap	53.52	kJ/mol	Joback Method
log10ws	-6.24		Crippen Method
logp	6.467		Crippen Method
mcvol	260.180	ml/mol	McGowan Method
pc	1216.59	kPa	Joback Method
rinpol	1534.00		NIST Webbook
rinpol	1534.00		NIST Webbook
tb	606.04	K	Joback Method
tc	778.54	K	Joback Method
tf	216.90	K	Joback Method
vc	1.002	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	702.09	J/mol×K	606.04	Joback Method
cpg	723.34	J/mol×K	634.79	Joback Method
cpg	743.64	J/mol×K	663.54	Joback Method
cpg	763.03	J/mol×K	692.29	Joback Method
cpg	781.52	J/mol×K	721.04	Joback Method
cpg	799.17	J/mol×K	749.79	Joback Method
cpg	815.98	J/mol×K	778.54	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R568200&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R568200&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>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>hvp:</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>rinp:</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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