

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

<b>Inchi:</b>	InChI=1S/C16H32/c1-12(2)8-14(5)10-16(7)11-15(6)9-13(3)4/h13-16H,1,8-11H2,2-7H3
<b>InchiKey:</b>	FLWFTEQZLFRMQH-UHFFFAOYSA-N
<b>Formula:</b>	C16H32
<b>SMILES:</b>	C=C(C)CC(C)CC(C)CC(C)CC(C)C
<b>Mol. weight [g/mol]:</b>	224.43

## Physical Properties

Property code	Value	Unit	Source
gf	153.37	kJ/mol	Joback Method
hf	-279.05	kJ/mol	Joback Method
hfus	20.51	kJ/mol	Joback Method
hvap	49.07	kJ/mol	Joback Method
log10ws	-5.41		Crippen Method
logp	5.687		Crippen Method
mcvol	232.000	ml/mol	McGowan Method
pc	1397.50	kPa	Joback Method
rinsol	1359.00		NIST Webbook
tb	560.28	K	Joback Method
tc	735.09	K	Joback Method
tf	194.36	K	Joback Method
vc	0.889	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	591.57	J/mol×K	560.28	Joback Method
cpg	612.12	J/mol×K	589.42	Joback Method
cpg	631.75	J/mol×K	618.55	Joback Method
cpg	650.50	J/mol×K	647.69	Joback Method
cpg	668.39	J/mol×K	676.82	Joback Method
cpg	685.46	J/mol×K	705.96	Joback Method
cpg	701.74	J/mol×K	735.09	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=R568240&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R568240&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>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>hvac:</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>mccvol:</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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<https://www.chemeo.com/cid/39-707-4/1-Undecene-2-4-6-8-10-pentamethyl.pdf>

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