

# 2,4,6,8-Tetramethyl-1-undecene, # 1

<b>Other names:</b>	1-Undecene, 2,4,6,8-tetramethyl, # 1
<b>Inchi:</b>	InChI=1S/C15H30/c1-7-8-13(4)10-15(6)11-14(5)9-12(2)3/h13-15H,2,7-11H2,1,3-6H3
<b>InchiKey:</b>	LBMKCDUBYFXSNQ-UHFFFAOYSA-N
<b>Formula:</b>	C15H30
<b>SMILES:</b>	<chem>C=C(C)CC(C)CC(C)CC(C)CCC</chem>
<b>Mol. weight [g/mol]:</b>	210.40

## Physical Properties

Property code	Value	Unit	Source
gf	147.39	kJ/mol	Joback Method
hf	-253.13	kJ/mol	Joback Method
hfus	21.45	kJ/mol	Joback Method
hvap	47.23	kJ/mol	Joback Method
log10ws	-5.23		Crippen Method
logp	5.441		Crippen Method
mcvol	217.910	ml/mol	McGowan Method
pc	1494.19	kPa	Joback Method
rinpol	1312.00		NIST Webbook
rinpol	1275.00		NIST Webbook
tb	537.84	K	Joback Method
tc	710.83	K	Joback Method
tf	198.09	K	Joback Method
vc	0.840	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	538.31	J/molxK	537.84	Joback Method
cpg	557.98	J/molxK	566.67	Joback Method
cpg	576.81	J/molxK	595.50	Joback Method
cpg	594.80	J/molxK	624.34	Joback Method
cpg	612.00	J/molxK	653.17	Joback Method
cpg	628.43	J/molxK	682.00	Joback Method
cpg	644.11	J/molxK	710.83	Joback Method

# Sources

<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=R529601&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R529601&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>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>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>rinpola:</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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