

# 2-Undecene, 2-methyl-

<b>Other names:</b>	2-Methyl-2-undecene 2-Methylundec-2-ene
<b>Inchi:</b>	InChI=1S/C12H24/c1-4-5-6-7-8-9-10-11-12(2)3/h11H,4-10H2,1-3H3
<b>InchiKey:</b>	SMDXUIYTBVHJNX-UHFFFAOYSA-N
<b>Formula:</b>	C12H24
<b>SMILES:</b>	CCCCCCCCC=C(C)C
<b>Mol. weight [g/mol]:</b>	168.32
<b>CAS:</b>	56888-88-1

## Physical Properties

Property code	Value	Unit	Source
gf	121.83	kJ/mol	Joback Method
hf	-183.58	kJ/mol	Joback Method
hfus	25.73	kJ/mol	Joback Method
hvap	42.34	kJ/mol	Joback Method
log10ws	-4.70		Crippen Method
logp	4.703		Crippen Method
mvol	175.640	ml/mol	McGowan Method
pc	1869.17	kPa	Joback Method
tb	478.00	K	Joback Method
tc	648.97	K	Joback Method
tf	205.96	K	Joback Method
vc	0.689	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.74	J/molxK	478.00	Joback Method
cpg	407.59	J/molxK	506.50	Joback Method
cpg	423.72	J/molxK	534.99	Joback Method
cpg	439.16	J/molxK	563.49	Joback Method
cpg	453.94	J/molxK	591.98	Joback Method
cpg	468.08	J/molxK	620.48	Joback Method
cpg	481.60	J/molxK	648.97	Joback Method

# Sources

<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=C56888881&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C56888881&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.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>

# 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>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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