

# Undecane, 3,5-dimethyl-

<b>Other names:</b>	3,5-Dimethylundecane
<b>Inchi:</b>	InChI=1S/C13H28/c1-5-7-8-9-10-13(4)11-12(3)6-2/h12-13H,5-11H2,1-4H3
<b>InchiKey:</b>	YSUJWFQMTUVXNQ-UHFFFAOYSA-N
<b>Formula:</b>	C13H28
<b>SMILES:</b>	CCCCCCC(C)CC(C)CC
<b>Mol. weight [g/mol]:</b>	184.36
<b>CAS:</b>	17312-81-1

## Physical Properties

Property code	Value	Unit	Source
gf	53.70	kJ/mol	Joback Method
hf	-322.21	kJ/mol	Joback Method
hfus	22.38	kJ/mol	Joback Method
hvap	43.76	kJ/mol	Joback Method
log10ws	-4.78		Crippen Method
logp	5.029		Crippen Method
mcvol	194.030	ml/mol	McGowan Method
pc	1665.97	kPa	Joback Method
rinpol	1207.00		NIST Webbook
rinpol	1207.00		NIST Webbook
rinpol	1207.00		NIST Webbook
rinpol	1205.00		NIST Webbook
rinpol	1207.20		NIST Webbook
rinpol	1210.70		NIST Webbook
rinpol	1211.00		NIST Webbook
rinpol	1207.00		NIST Webbook
rinpol	1223.00		NIST Webbook
tb	495.96	K	Joback Method
tc	662.44	K	Joback Method
tf	206.27	K	Joback Method
vc	0.751	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	455.70	J/molxK	495.96	Joback Method
cpg	473.97	J/molxK	523.71	Joback Method
cpg	491.53	J/molxK	551.45	Joback Method
cpg	508.38	J/molxK	579.20	Joback Method
cpg	524.55	J/molxK	606.95	Joback Method
cpg	540.06	J/molxK	634.69	Joback Method
cpg	554.93	J/molxK	662.44	Joback Method
dvisc	0.0170093	Paxs	206.27	Joback Method
dvisc	0.0038696	Paxs	254.55	Joback Method
dvisc	0.0014115	Paxs	302.83	Joback Method
dvisc	0.0006795	Paxs	351.12	Joback Method
dvisc	0.0003903	Paxs	399.40	Joback Method
dvisc	0.0002527	Paxs	447.68	Joback Method
dvisc	0.0001780	Paxs	495.96	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=C17312811&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C17312811&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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature

**tc:** Critical Temperature  
**tf:** Normal melting (fusion) point  
**vc:** Critical Volume

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