

# (3Z,5E)-1,3,5-Undecatriene

<b>Other names:</b>	1,3,5-Undecatriene, (Z,E)- (Z,E)-undeca-1,3,5-triene
<b>Inchi:</b>	InChI=1S/C11H18/c1-3-5-7-9-11-10-8-6-4-2/h3,5,7,9,11H,1,4,6,8,10H2,2H3/b7-5-,11-9+
<b>InchiKey:</b>	JQQDKNVOSLONRS-BABZSUFTSA-N
<b>Formula:</b>	C11H18
<b>SMILES:</b>	C=CC=CC=CCCCC
<b>Mol. weight [g/mol]:</b>	150.26
<b>CAS:</b>	19883-27-3

## Physical Properties

Property code	Value	Unit	Source
gf	290.02	kJ/mol	Joback Method
hf	89.50	kJ/mol	Joback Method
hfus	23.37	kJ/mol	Joback Method
hvap	39.33	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	3.865		Crippen Method
mcvol	152.950	ml/mol	McGowan Method
pc	2208.29	kPa	Joback Method
rinpol	1182.00		NIST Webbook
ripol	1408.00		NIST Webbook
ripol	1408.00		NIST Webbook
tb	456.08	K	Joback Method
tc	636.70	K	Joback Method
tf	201.81	K	Joback Method
vc	0.593	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.85	J/mol×K	456.08	Joback Method
cpg	326.98	J/mol×K	486.18	Joback Method
cpg	341.33	J/mol×K	516.29	Joback Method
cpg	354.94	J/mol×K	546.39	Joback Method

cpg	367.86	J/molxK	576.49	Joback Method
cpg	380.11	J/molxK	606.60	Joback Method
cpg	391.75	J/molxK	636.70	Joback Method
dvisc	0.0047896	Paxs	201.81	Joback Method
dvisc	0.0016581	Paxs	244.19	Joback Method
dvisc	0.0007856	Paxs	286.57	Joback Method
dvisc	0.0004512	Paxs	328.95	Joback Method
dvisc	0.0002941	Paxs	371.32	Joback Method
dvisc	0.0002093	Paxs	413.70	Joback Method
dvisc	0.0001586	Paxs	456.08	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C19883273&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C19883273&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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>ripol:</b>	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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