

# 3-Undecene

<b>Inchi:</b>	InChI=1S/C11H22/c1-3-5-7-9-11-10-8-6-4-2/h5,7H,3-4,6,8-11H2,1-2H3
<b>InchiKey:</b>	SDTYFWAQLSIEBH-UHFFFAOYSA-N
<b>Formula:</b>	C11H22
<b>SMILES:</b>	CCC=CCCCCCC
<b>Mol. weight [g/mol]:</b>	154.29
<b>CAS:</b>	60669-40-1

## Physical Properties

Property code	Value	Unit	Source
gf	121.96	kJ/mol	Joback Method
hf	-153.15	kJ/mol	Joback Method
hfus	24.45	kJ/mol	Joback Method
hvap	40.04	kJ/mol	Joback Method
log10ws	-4.28		Crippen Method
logp	4.313		Crippen Method
mcvol	161.550	ml/mol	McGowan Method
pc	2025.41	kPa	Joback Method
rinpol	1005.00		NIST Webbook
rinpol	1005.00		NIST Webbook
tb	455.24	K	Joback Method
tc	624.41	K	Joback Method
tf	208.65	K	Joback Method
vc	0.631	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	344.60	J/mol×K	455.24	Joback Method
cpg	360.43	J/mol×K	483.44	Joback Method
cpg	375.59	J/mol×K	511.63	Joback Method
cpg	390.12	J/mol×K	539.83	Joback Method
cpg	404.02	J/mol×K	568.02	Joback Method
cpg	417.34	J/mol×K	596.22	Joback Method
cpg	430.08	J/mol×K	624.41	Joback Method

dvisc	0.0058574	Paxs	208.65	Joback Method
dvisc	0.0020642	Paxs	249.75	Joback Method
dvisc	0.0009768	Paxs	290.85	Joback Method
dvisc	0.0005563	Paxs	331.95	Joback Method
dvisc	0.0003587	Paxs	373.04	Joback Method
dvisc	0.0002523	Paxs	414.14	Joback Method
dvisc	0.0001891	Paxs	455.24	Joback Method

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.56360e+01
Coeff. B	-4.29666e+03
Coeff. C	-7.08790e+01
Temperature range (K), min.	350.82
Temperature range (K), max.	487.04

## 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=C60669401&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C60669401&amp;Units=SI</a>
<b>The Yaws Handbook of Vapor Pressure:</b>	<a href="https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure">https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure</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>

## 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>pvap:</b>	Vapor pressure
<b>rincol:</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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