

# 2-Undecene, (Z)-

<b>Other names:</b>	(Z)-2-Undecene 2-Undecene, cis- cis-2-Undecene
<b>Inchi:</b>	InChI=1S/C11H22/c1-3-5-7-9-11-10-8-6-4-2/h3,5H,4,6-11H2,1-2H3/b5-3-
<b>InchiKey:</b>	JOHIXGUTSXXADV-HYXAFXHYSA-N
<b>Formula:</b>	C11H22
<b>SMILES:</b>	CC=CCCCCCCC
<b>Mol. weight [g/mol]:</b>	154.29
<b>CAS:</b>	821-96-5

## 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	1110.80		NIST Webbook
rinpol	1103.00		NIST Webbook
rinpol	1111.00		NIST Webbook
rinpol	1101.00		NIST Webbook
rinpol	1103.00		NIST Webbook
rinpol	1102.00		NIST Webbook
rinpol	1102.00		NIST Webbook
rinpol	1118.00		NIST Webbook
rinpol	1111.00		NIST Webbook
rinpol	1114.00		NIST Webbook
rinpol	1102.00		NIST Webbook
rinpol	1112.00		NIST Webbook
rinpol	1102.00		NIST Webbook
rinpol	1102.00		NIST Webbook
ripol	1179.00		NIST Webbook
ripol	1173.00		NIST Webbook
ripol	1183.00		NIST Webbook

ripol	1173.00		NIST Webbook
ripol	1183.00		NIST Webbook
ripol	1176.40		NIST Webbook
ripol	1175.00		NIST Webbook
ripol	1183.00		NIST Webbook
ripol	1179.30		NIST Webbook
ripol	1173.00		NIST Webbook
ripol	1177.00		NIST Webbook
ripol	1176.00		NIST Webbook
ripol	1175.00		NIST Webbook
ripol	1176.00		NIST Webbook
ripol	1183.00		NIST Webbook
ripol	1181.00		NIST Webbook
ripol	1179.00		NIST Webbook
ripol	1176.40		NIST Webbook
ripol	1179.30		NIST Webbook
ripol	1174.00		NIST Webbook
tb	469.30	K	NIST Webbook
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	430.08	J/molxK	624.41	Joback Method
cpg	417.34	J/molxK	596.22	Joback Method
cpg	404.02	J/molxK	568.02	Joback Method
cpg	390.12	J/molxK	539.83	Joback Method
cpg	375.59	J/molxK	511.63	Joback Method
cpg	360.43	J/molxK	483.44	Joback Method
cpg	344.60	J/molxK	455.24	Joback Method
dvisc	0.0058574	Paxs	208.65	Joback Method
dvisc	0.0001891	Paxs	455.24	Joback Method
dvisc	0.0002523	Paxs	414.14	Joback Method
dvisc	0.0003587	Paxs	373.04	Joback Method
dvisc	0.0005563	Paxs	331.95	Joback Method
dvisc	0.0009768	Paxs	290.85	Joback Method
dvisc	0.0020642	Paxs	249.75	Joback Method
hvapt	53.20	kJ/mol	363.00	NIST Webbook

# Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	349.00	K	1.30	NIST Webbook

## Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.45585e+01
Coeff. B	-3.89075e+03
Coeff. C	-7.78830e+01
Temperature range (K), min.	350.52
Temperature range (K), max.	498.64

## Sources

Joback Method:	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
McGowan Method:	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
NIST Webbook:	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C821965&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C821965&amp;Units=SI</a>
The Yaws Handbook of Vapor Pressure:	<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>
Crippen Method:	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
Crippen Method:	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	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>hvapt:</b>	Enthalpy of vaporization at a given temperature
<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>pvap:</b>	Vapor pressure
<b>rinpola:</b>	Non-polar retention indices
<b>ripola:</b>	Polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tbrp:</b>	Boiling point at reduced pressure
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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