

# undec-3-en-2-one

<b>Other names:</b>	3-Undecen-2-one
<b>Inchi:</b>	InChI=1S/C11H20O/c1-3-4-5-6-7-8-9-10-11(2)12/h9-10H,3-8H2,1-2H3/b10-9+
<b>InchiKey:</b>	CCXHMPZXKYIXPU-MDZDMXLPSA-N
<b>Formula:</b>	C11H20O
<b>SMILES:</b>	CCCCCCCC=CC(C)=O
<b>Mol. weight [g/mol]:</b>	168.28
<b>CAS:</b>	10522-37-9

## Physical Properties

Property code	Value	Unit	Source
gf	-6.96	kJ/mol	Joback Method
hf	-265.73	kJ/mol	Joback Method
hfus	26.05	kJ/mol	Joback Method
hvap	46.78	kJ/mol	Joback Method
log10ws	-3.56		Crippen Method
logp	3.492		Crippen Method
mcvol	163.120	ml/mol	McGowan Method
pc	2145.33	kPa	Joback Method
rinpol	1344.00		NIST Webbook
rinpol	1424.00		NIST Webbook
rinpol	1424.00		NIST Webbook
tb	509.11	K	Joback Method
tc	687.97	K	Joback Method
tf	258.58	K	Joback Method
vc	0.637	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.02	J/molxK	509.11	Joback Method
cpg	385.94	J/molxK	538.92	Joback Method
cpg	400.19	J/molxK	568.73	Joback Method
cpg	413.77	J/molxK	598.54	Joback Method
cpg	426.72	J/molxK	628.35	Joback Method

cpg	439.06	J/mol×K	658.16	Joback Method
cpg	450.83	J/mol×K	687.97	Joback Method
dvisc	0.0041858	Paxs	258.58	Joback Method
dvisc	0.0018010	Paxs	300.34	Joback Method
dvisc	0.0009520	Paxs	342.09	Joback Method
dvisc	0.0005781	Paxs	383.85	Joback Method
dvisc	0.0003872	Paxs	425.60	Joback Method
dvisc	0.0002785	Paxs	467.36	Joback Method
dvisc	0.0002115	Paxs	509.11	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C10522379&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C10522379&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>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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