

# trans-2-Undecen-1-ol

<b>Other names:</b>	(2E)-2-Undecen-1-ol (E)-2-Undecen-1-ol trans-Undec-2-en-1-ol
<b>Inchi:</b>	InChI=1S/C11H22O/c1-2-3-4-5-6-7-8-9-10-11-12/h9-10,12H,2-8,11H2,1H3/b10-9+
<b>InchiKey:</b>	SKBIQKQBLQHOSU-MDZDMXLPSA-N
<b>Formula:</b>	C11H22O
<b>SMILES:</b>	CCCCCCCCC=CCO
<b>Mol. weight [g/mol]:</b>	170.29
<b>CAS:</b>	75039-84-8

## Physical Properties

Property code	Value	Unit	Source
gf	-14.86	kJ/mol	Joback Method
hf	-305.38	kJ/mol	Joback Method
hfus	28.54	kJ/mol	Joback Method
hvap	56.72	kJ/mol	Joback Method
log10ws	-3.54		Crippen Method
logp	3.286		Crippen Method
mcvol	167.420	ml/mol	McGowan Method
pc	2204.15	kPa	Joback Method
ripol	1899.00		NIST Webbook
tb	547.42	K	Joback Method
tc	711.32	K	Joback Method
tf	269.47	K	Joback Method
vc	0.650	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	410.31	J/molxK	547.42	Joback Method
cpg	423.89	J/molxK	574.74	Joback Method
cpg	436.89	J/molxK	602.05	Joback Method
cpg	449.34	J/molxK	629.37	Joback Method
cpg	461.26	J/molxK	656.68	Joback Method

cpg	472.68	J/mol×K	684.00	Joback Method
cpg	483.61	J/mol×K	711.32	Joback Method
dvisc	0.0265819	Paxs	269.47	Joback Method
dvisc	0.0050745	Paxs	315.80	Joback Method
dvisc	0.0014798	Paxs	362.12	Joback Method
dvisc	0.0005707	Paxs	408.45	Joback Method
dvisc	0.0002673	Paxs	454.77	Joback Method
dvisc	0.0001440	Paxs	501.10	Joback Method
dvisc	0.0000861	Paxs	547.42	Joback Method

## 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=C75039848&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C75039848&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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