

# 11-hydroxyundecanoic acid

<b>Inchi:</b>	InChI=1S/C11H22O3/c12-10-8-6-4-2-1-3-5-7-9-11(13)14/h12H,1-10H2,(H,13,14)
<b>InchiKey:</b>	KNRCBASNXNXUQQ-UHFFFAOYSA-N
<b>Formula:</b>	C11H22O3
<b>SMILES:</b>	O=C(O)CCCCCCCCCO
<b>Mol. weight [g/mol]:</b>	202.29
<b>CAS:</b>	3669-80-5

## Physical Properties

Property code	Value	Unit	Source
gf	-360.82	kJ/mol	Joback Method
hf	-687.41	kJ/mol	Joback Method
hfs	-920.00 ± 3.00	kJ/mol	NIST Webbook
hfus	34.02	kJ/mol	Joback Method
hvap	80.18	kJ/mol	Joback Method
log10ws	-2.79		Crippen Method
logp	2.574		Crippen Method
mcvol	179.160	ml/mol	McGowan Method
pc	2433.84	kPa	Joback Method
tb	689.31	K	Joback Method
tc	855.97	K	Joback Method
tf	385.30	K	Joback Method
vc	0.696	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	572.66	J/mol×K	855.97	Joback Method
cpg	563.57	J/mol×K	828.20	Joback Method
cpg	554.02	J/mol×K	800.42	Joback Method
cpg	544.01	J/mol×K	772.64	Joback Method
cpg	533.51	J/mol×K	744.86	Joback Method
cpg	522.51	J/mol×K	717.09	Joback Method
cpg	510.99	J/mol×K	689.31	Joback Method
dvisc	0.0050547	Paxs	385.30	Joback Method

dvisc	0.0000159	Paxs	689.31	Joback Method
dvisc	0.0000284	Paxs	638.64	Joback Method
dvisc	0.0000561	Paxs	587.97	Joback Method
dvisc	0.0001257	Paxs	537.30	Joback Method
dvisc	0.0003332	Paxs	486.64	Joback Method
dvisc	0.0011081	Paxs	435.97	Joback Method
hsubt	105.00	kJ/mol	314.00	NIST Webbook

## Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	422.20	K	0.50	NIST Webbook

## Sources

<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>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C3669805&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C3669805&amp;Units=SI</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>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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>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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