

# Hydroxylamine, O-decyl-

<b>Other names:</b>	O-Decylhydroxylamine
<b>Inchi:</b>	InChI=1S/C10H23NO/c1-2-3-4-5-6-7-8-9-10-12-11/h2-11H2,1H3
<b>InchiKey:</b>	MQNAOOIFODUDES-UHFFFAOYSA-N
<b>Formula:</b>	C10H23NO
<b>SMILES:</b>	CCCCCCCCCON
<b>Mol. weight [g/mol]:</b>	173.30
<b>CAS:</b>	29812-79-1

## Physical Properties

Property code	Value	Unit	Source
gf	-5.23	kJ/mol	Joback Method
hf	-348.16	kJ/mol	Joback Method
hfus	28.04	kJ/mol	Joback Method
hvap	50.91	kJ/mol	Joback Method
log10ws	-3.52		Crippen Method
logp	3.017		Crippen Method
mcvol	167.610	ml/mol	McGowan Method
pc	2187.68	kPa	Joback Method
rinpol	1100.00		NIST Webbook
rinpol	1100.00		NIST Webbook
tb	523.15	K	Joback Method
tc	696.93	K	Joback Method
tf	307.95	K	Joback Method
vc	0.642	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	409.39	J/molxK	523.15	Joback Method
cpg	424.49	J/molxK	552.11	Joback Method
cpg	439.01	J/molxK	581.08	Joback Method
cpg	452.96	J/molxK	610.04	Joback Method
cpg	466.34	J/molxK	639.00	Joback Method
cpg	479.17	J/molxK	667.96	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C29812791&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29812791&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>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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