

# Propionamide, 2-(hydroxyamino)-2-methyl-

<b>Inchi:</b>	InChI=1S/C4H10N2O2/c1-4(2,6-8)3(5)7/h6,8H,1-2H3,(H2,5,7)
<b>InchiKey:</b>	JNMCPUMWFZUFCA-UHFFFAOYSA-N
<b>Formula:</b>	C4H10N2O2
<b>SMILES:</b>	CC(C)(NO)C(N)=O
<b>Mol. weight [g/mol]:</b>	118.13
<b>CAS:</b>	98026-06-3

## Physical Properties

Property code	Value	Unit	Source
gf	-124.26	kJ/mol	Joback Method
hf	-312.19	kJ/mol	Joback Method
hfus	14.69	kJ/mol	Joback Method
hvap	63.70	kJ/mol	Joback Method
log10ws	0.34		Crippen Method
logp	-0.771		Crippen Method
mcvol	94.620	ml/mol	McGowan Method
pc	5422.51	kPa	Joback Method
tb	556.44	K	Joback Method
tc	754.54	K	Joback Method
tf	383.93	K	Joback Method
vc	0.338	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	233.66	J/molxK	556.44	Joback Method
cpg	241.74	J/molxK	589.46	Joback Method
cpg	249.29	J/molxK	622.47	Joback Method
cpg	256.36	J/molxK	655.49	Joback Method
cpg	262.96	J/molxK	688.51	Joback Method
cpg	269.12	J/molxK	721.53	Joback Method
cpg	274.88	J/molxK	754.54	Joback Method

# Sources

<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=C98026063&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C98026063&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>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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>h vap:</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>m cvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<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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