

# Pentanamide, 5-hydroxy-

<b>Other names:</b>	Valeramide, 5-hydroxy- «delta»-Hydroxyvaleramide
<b>Inchi:</b>	InChI=1S/C5H11NO2/c6-5(8)3-1-2-4-7/h7H,1-4H2,(H2,6,8)
<b>InchiKey:</b>	UYOWQFWKDDJSLV-UHFFFAOYSA-N
<b>Formula:</b>	C5H11NO2
<b>SMILES:</b>	NC(=O)CCCCO
<b>Mol. weight [g/mol]:</b>	117.15
<b>CAS:</b>	29686-12-2

## Physical Properties

Property code	Value	Unit	Source
gf	-208.07	kJ/mol	Joback Method
hf	-377.55	kJ/mol	Joback Method
hfus	19.59	kJ/mol	Joback Method
hvap	60.79	kJ/mol	Joback Method
log10ws	-0.39		Crippen Method
logp	-0.366		Crippen Method
mvol	98.730	ml/mol	McGowan Method
pc	4528.58	kPa	Joback Method
tb	532.38	K	Joback Method
tc	715.91	K	Joback Method
tf	340.12	K	Joback Method
vc	0.369	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	231.63	J/molxK	532.38	Joback Method
cpg	239.85	J/molxK	562.97	Joback Method
cpg	247.69	J/molxK	593.56	Joback Method
cpg	255.15	J/molxK	624.15	Joback Method
cpg	262.27	J/molxK	654.74	Joback Method
cpg	269.03	J/molxK	685.33	Joback Method
cpg	275.46	J/molxK	715.91	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C29686122&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C29686122&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>hvp:</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>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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