

# Valeramide, 3-hydroxy-2,2,4-trimethyl

<b>Inchi:</b>	InChI=1S/C8H17NO2/c1-5(2)6(10)8(3,4)7(9)11/h5-6,10H,1-4H3,(H2,9,11)
<b>InchiKey:</b>	NEDAPQCBLYSKRZ-UHFFFAOYSA-N
<b>Formula:</b>	C8H17NO2
<b>SMILES:</b>	CC(C)C(O)C(C)(C)C(N)=O
<b>Mol. weight [g/mol]:</b>	159.23
<b>CAS:</b>	90227-43-3

## Physical Properties

Property code	Value	Unit	Source
gf	-184.85	kJ/mol	Joback Method
hf	-458.78	kJ/mol	Joback Method
hfus	12.90	kJ/mol	Joback Method
hvap	65.40	kJ/mol	Joback Method
log10ws	-1.27		Crippen Method
logp	0.515		Crippen Method
mcvol	141.000	ml/mol	McGowan Method
pc	3306.75	kPa	Joback Method
tb	596.91	K	Joback Method
tc	791.44	K	Joback Method
tf	346.35	K	Joback Method
vc	0.514	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	371.29	J/molxK	596.91	Joback Method
cpg	383.18	J/molxK	629.33	Joback Method
cpg	394.38	J/molxK	661.75	Joback Method
cpg	404.92	J/molxK	694.18	Joback Method
cpg	414.83	J/molxK	726.60	Joback Method
cpg	424.16	J/molxK	759.02	Joback Method
cpg	432.92	J/molxK	791.44	Joback Method

# Sources

<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=C90227433&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C90227433&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>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</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>mccvol:</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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