

# Valeramide, 5-chloro-N-nonyl-

<b>Inchi:</b>	InChI=1S/C14H28ClNO/c1-2-3-4-5-6-7-10-13-16-14(17)11-8-9-12-15/h2-13H2,1H3,(H,16)
<b>InchiKey:</b>	CEAWHJLIVQMEFZ-UHFFFAOYSA-N
<b>Formula:</b>	C14H28ClNO
<b>SMILES:</b>	CCCCCCCCCNC(=O)CCCCCl
<b>Mol. weight [g/mol]:</b>	261.83

## Physical Properties

Property code	Value	Unit	Source
gf	15.54	kJ/mol	Joback Method
hf	-407.14	kJ/mol	Joback Method
hfus	42.91	kJ/mol	Joback Method
hvap	64.32	kJ/mol	Joback Method
log10ws	-4.80		Crippen Method
logp	4.262		Crippen Method
mvol	231.910	ml/mol	McGowan Method
pc	1570.96	kPa	Joback Method
rinpol	2142.00		NIST Webbook
rinpol	2142.00		NIST Webbook
tb	661.19	K	Joback Method
tc	836.91	K	Joback Method
tf	380.05	K	Joback Method
vc	0.909	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	630.88	J/mol×K	661.19	Joback Method
cpg	647.02	J/mol×K	690.48	Joback Method
cpg	662.39	J/mol×K	719.76	Joback Method
cpg	677.02	J/mol×K	749.05	Joback Method
cpg	690.94	J/mol×K	778.33	Joback Method
cpg	704.17	J/mol×K	807.62	Joback Method
cpg	716.74	J/mol×K	836.91	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=U407371&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U407371&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>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>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>r in pol:</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

Latest version available from:

<https://www.cheméo.com/cid/121-570-4/Valeramide-5-chloro-N-nonyl.pdf>

Generated by Cheméo on 2024-04-30 17:58:58.091771568 +0000 UTC m=+16789187.012348883.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.