

# 3-Chloropropionamide

<b>Other names:</b>	Propanamide, 3-chloro-
<b>Inchi:</b>	InChI=1S/C3H6ClNO/c4-2-1-3(5)6/h1-2H2,(H2,5,6)
<b>InchiKey:</b>	JQDXZJYAUSVHDH-UHFFFAOYSA-N
<b>Formula:</b>	C3H6ClNO
<b>SMILES:</b>	NC(=O)CCCl
<b>Mol. weight [g/mol]:</b>	107.54
<b>CAS:</b>	5875-24-1

## Physical Properties

Property code	Value	Unit	Source
gf	-100.02	kJ/mol	Joback Method
hf	-199.78	kJ/mol	Joback Method
hfus	14.52	kJ/mol	Joback Method
hvap	44.04	kJ/mol	Joback Method
log10ws	-0.44		Crippen Method
logp	0.101		Crippen Method
mcvol	76.920	ml/mol	McGowan Method
pc	4938.44	kPa	Joback Method
tb	431.87	K	Joback Method
tc	636.51	K	Joback Method
tf	286.68	K	Joback Method
vc	0.287	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	137.65	J/mol×K	431.87	Joback Method
cpg	143.97	J/mol×K	465.98	Joback Method
cpg	149.97	J/mol×K	500.08	Joback Method
cpg	155.67	J/mol×K	534.19	Joback Method
cpg	161.08	J/mol×K	568.30	Joback Method
cpg	166.19	J/mol×K	602.40	Joback Method
cpg	171.03	J/mol×K	636.51	Joback Method

# Sources

<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.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>
<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=C5875241&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5875241&amp;Units=SI</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>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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