

# Propanamide, N-(3-nitrophenyl)-2-chloro-

<b>Inchi:</b>	InChI=1S/C9H9ClN2O3/c1-6(10)9(13)11-7-3-2-4-8(5-7)12(14)15/h2-6H,1H3,(H,11,13)
<b>InchiKey:</b>	DKFBWJ TZPPJWFC-UHFFFAOYSA-N
<b>Formula:</b>	C9H9ClN2O3
<b>SMILES:</b>	CC(Cl)C(=O)Nc1cccc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	228.63

## Physical Properties

Property code	Value	Unit	Source
gf	109.33	kJ/mol	Joback Method
hf	-94.92	kJ/mol	Joback Method
hfus	31.45	kJ/mol	Joback Method
hvap	72.34	kJ/mol	Joback Method
log10ws	-3.01		Crippen Method
logp	2.161		Crippen Method
mvol	155.120	ml/mol	McGowan Method
pc	3431.89	kPa	Joback Method
rinpol	1873.00		NIST Webbook
tb	729.85	K	Joback Method
tc	980.32	K	Joback Method
tf	491.25	K	Joback Method
vc	0.598	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	390.51	J/mol×K	729.85	Joback Method
cpg	400.97	J/mol×K	771.60	Joback Method
cpg	410.49	J/mol×K	813.34	Joback Method
cpg	419.13	J/mol×K	855.09	Joback Method
cpg	426.94	J/mol×K	896.83	Joback Method
cpg	433.97	J/mol×K	938.58	Joback Method
cpg	440.29	J/mol×K	980.32	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=U307489&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U307489&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>hvac:</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>mccol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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.chemeo.com/cid/42-802-4/Propanamide-N-3-nitrophenyl-2-chloro.pdf>

Generated by Cheméo on 2024-04-18 21:58:48.124379082 +0000 UTC m=+15766777.044956417.

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