

# 2-Chloro-4-nitrobenzhydrazide

<b>Inchi:</b>	InChI=1S/C7H6ClN3O3/c8-6-3-4(11(13)14)1-2-5(6)7(12)10-9/h1-3H,9H2,(H,10,12)
<b>InchiKey:</b>	XLDHQBNLMQYVBC-UHFFFAOYSA-N
<b>Formula:</b>	C7H6ClN3O3
<b>SMILES:</b>	<chem>NNC(=O)c1ccc([N+](=O)[O-])cc1Cl</chem>
<b>Mol. weight [g/mol]:</b>	215.59
<b>CAS:</b>	67345-78-2

## Physical Properties

Property code	Value	Unit	Source
gf	151.75	kJ/mol	Joback Method
hf	-26.04	kJ/mol	Joback Method
hfus	34.60	kJ/mol	Joback Method
hvap	79.57	kJ/mol	Joback Method
log10ws	-3.16		Crippen Method
logp	0.852		Crippen Method
mvol	136.920	ml/mol	McGowan Method
pc	4559.21	kPa	Joback Method
tb	762.04	K	Joback Method
tc	1023.63	K	Joback Method
tf	579.49	K	Joback Method
vc	0.520	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	337.79	J/mol×K	762.04	Joback Method
cpg	345.77	J/mol×K	805.64	Joback Method
cpg	352.96	J/mol×K	849.24	Joback Method
cpg	359.38	J/mol×K	892.84	Joback Method
cpg	365.10	J/mol×K	936.44	Joback Method
cpg	370.14	J/mol×K	980.04	Joback Method
cpg	374.56	J/mol×K	1023.63	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C67345782&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C67345782&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>
<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>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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