

# N-Chlorosuccinimide

<b>Other names:</b>	2,5-Pyrrolidinedione, 1-chloro-Succinimide, N-chloro-Chlorosuccinimide Succinchlorimide Succinic N-chloroimide 1-Chloro-2,5-pyrrolidinedione Succinochlorimide NCS NSC 8748
<b>Inchi:</b>	InChI=1S/C4H4ClNO2/c5-6-3(7)1-2-4(6)8/h1-2H2
<b>InchiKey:</b>	JRNVZBWKYDBUCA-UHFFFAOYSA-N
<b>Formula:</b>	C4H4ClNO2
<b>SMILES:</b>	O=C1CCC(=O)N1Cl
<b>Mol. weight [g/mol]:</b>	133.53
<b>CAS:</b>	128-09-6

## Physical Properties

Property code	Value	Unit	Source
hfs	-358.10 ± 0.40	kJ/mol	NIST Webbook
ie	10.29	eV	NIST Webbook
ie	10.29	eV	NIST Webbook
log10ws	-0.66		Crippen Method
logp	0.289		Crippen Method
mvol	81.720	ml/mol	McGowan Method

## Sources

<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</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=C128096&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C128096&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>

# Legend

<b>hfs:</b>	Solid phase enthalpy of formation at standard conditions
<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume

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