

# Niclosamide

**Other names:**

- 2',5-Dichlor-4'-nitro-salizylsaeureanilid
- 2',5-Dichloro-4'-Nitrosalicylanilide
- 2-Chloro-4-nitrophenylamide-6-chlorosalicylic acid
- 2-Hydroxy-5-chloro-N-(2-chloro-4-nitrophenyl)benzamide
- 5-Chloro-2'-chloro-4'-nitrosalicylanilide
- 5-Chloro-N-(2'-chloro-4'-nitrophenyl)salicylamide
- 5-Chloro-N-(2-chloro-4-nitrophenyl)-2-hydroxybenzamide
- 5-Chloro-N-(2-chloro-4-nitrophenyl)-2-hydroxybenzamide (niclosamide)
- Atenase
- BAY 2353
- Bayer 2353
- Bayer 73
- Baylucid
- Benzamide, 5-chloro-N-(2-chloro-4-nitrophenyl)-2-hydroxy-
- Cestocid
- Cestocide
- Chemagro 2353
- Devermin
- Devermine
- Dichlosale
- ENT 25823
- Fedal-Telmin
- Fenasal
- HL 2447
- Helmiantin
- lomesan
- lomezan
- Lintex
- Mansonil
- Mato
- N-(2'-Chlor-4'-nitrophenyl)-5-chlorosalicylamid
- N-(2'-Chloro-4'-nitrophenyl)-5-chlorosalicylamide
- N-(2-Chloro-4-nitrophenyl)-5-chlorosalicylamide
- Nasemo
- Niclocide
- Phenasal
- Radeverm
- Ruby
- Sagimid
- Salicylanilide, 2',5-dichloro-4'-nitro-

Sulqui  
Tredemine  
Vermidid  
Vermidin  
WR 46234  
Yomesan  
Zestocarp

**Inchi:** InChI=1S/C13H8Cl2N2O4/c14-7-1-4-12(18)9(5-7)13(19)16-11-3-2-8(17(20)21)6-10(11)1  
**InchiKey:** RJMUSRYZPJFPJ-UHFFFAOYSA-N  
**Formula:** C13H8Cl2N2O4  
**SMILES:** O=C(Nc1ccc([N+](=O)[O-])cc1Cl)c1cc(Cl)ccc1O  
**Mol. weight [g/mol]:** 327.12  
**CAS:** 50-65-7

## Physical Properties

Property code	Value	Unit	Source
gf	72.05	kJ/mol	Joback Method
hf	-151.66	kJ/mol	Joback Method
hfus	48.58	kJ/mol	Joback Method
hvap	102.63	kJ/mol	Joback Method
log10ws	-4.70		Estimated Solubility Method
log10ws	-4.70		Aqueous Solubility Prediction Method
logp	3.859		Crippen Method
mvol	205.830	ml/mol	McGowan Method
pc	3517.91	kPa	Joback Method
tb	976.50	K	Joback Method
tc	1251.59	K	Joback Method
tf	499.65	K	Aqueous Solubility Prediction Method
vc	0.735	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	585.34	J/mol×K	1159.89	Joback Method
cpg	594.37	J/mol×K	1205.74	Joback Method

cpg	550.33	J/mol×K	976.50	Joback Method
cpg	559.25	J/mol×K	1022.35	Joback Method
cpg	567.95	J/mol×K	1068.20	Joback Method
cpg	576.59	J/mol×K	1114.04	Joback Method
cpg	603.85	J/mol×K	1251.59	Joback Method
hfust	40.70	kJ/mol	505.40	NIST Webbook
hfust	35.98	kJ/mol	502.20	NIST Webbook

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C50657&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C50657&amp;Units=SI</a>
<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>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>Estimated Solubility Method:</b>	<a href="http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt">http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt</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>hfust:</b>	Enthalpy of fusion at a given temperature
<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>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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