

# Nalidixic Acid

<b>Other names:</b>	1,4-Dihydro-1-ethyl-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid 1,8-Naphthyridine-3-carboxylic acid, 1-ethyl-1,4-dihydro-7-methyl-4-oxo- 1-Aethyl-7-methyl-1,8-naphthyridin-4-on-3-karbonsaeure 1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxilic acid 1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid 1-Ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid (nalidixic acid) 1-Ethyl-7-methyl-1,4-dihydro-1,8-naphthyridin-4-one-3-carboxylic acid 1-Ethyl-7-methyl-4-oxo-1,4-dihydro-1,8-naphthyridine-3-carboxylic acid 3-Carboxy-1-ethyl-7-methyl-1,8-naphthyridin-4-one 3-Carboxy-1-ethyl-7-methyl-1,8-naphthyridin-4-one Acide 1-etyl-7-metil-1,8-naftiridin-4-one-3-carbossilico Acide nalidixico Acide nalidixique Betaxina Cybis Dixiben Dixinal Eucisten Eucistin Innoxalomin Innoxalon Jicsron Kusnarin NCI-C56199 NSC-82174 Nacid Nalidic acid Nalidicron Nalidixan Nalidixane Nalidixate Nalidixin Nalidixinic acid Nalitucsan Nalix Nalurin Narigix Naxuril NegGram Negram
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Nevigramon

Nicelate

Nogram

Poleon

Sicmylon

Specifen

Specifin

Unaserus

Uralgin

Uriben

Uriclar

Urisal

Urodixin

Uroman

Uroneg

Uronidix

Uropan

WIN 18,320

WIN 18320

Wintomylon

**Inchi:** InChI=1S/C12H12N2O3/c1-3-14-6-9(12(16)17)10(15)8-5-4-7(2)13-11(8)14/h4-6H,3H2,1-

**InchiKey:** MHWLWQUZZRMNGJ-UHFFFAOYSA-N

**Formula:** C12H12N2O3

**SMILES:** CCn1cc(C(=O)O)c(=O)c2ccc(C)nc2

**Mol. weight [g/mol]:** 232.24

**CAS:** 389-08-2

## Physical Properties

Property code	Value	Unit	Source
log10ws	-3.66		Aqueous Solubility Prediction Method
logp	1.423		Crippen Method
mcvol	169.990	ml/mol	McGowan Method
tf	502.55	K	Aqueous Solubility Prediction Method

# Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	35.92	kJ/mol	501.90	NIST Webbook
hfust	35.92	kJ/mol	501.90	NIST Webbook

## Sources

**NIST Webbook:**

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C389082&Units=SI>

**Crippen Method:**

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Aqueous Solubility Prediction Method:**

<http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

**McGowan Method:**

<http://link.springer.com/article/10.1007/BF02311772>

## Legend

**hfust:** Enthalpy of fusion at a given temperature

**log10ws:** Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

**tf:** Normal melting (fusion) point

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