

# Nitrofurazone

**Other names:**

- (5-Nitro-2-furfurylidenamino)urea
- (5-Nitro-2-furfurylideneamino)urea
- 1-(5-Nitro-2-furfurylidene)semicarbazide
- 1-(5-Nitrofurfurylidene)semicarbazide
- 2-((5-Nitro-2-furanyl)methylene)hydrazinecarboxamide
- 2-Furaldehyde, 5-nitro-, semicarbazone
- 2-Furancarboxaldehyde, 5-nitro-, semicarbazone
- 5-Nitro furfural semicarbazone
- 5-Nitro-2-furaldehyde semicarbazone
- 5-Nitro-2-furancarboxaldehyde semicarbazone
- 5-Nitro-2-furfural semicarbazone
- 5-Nitro-2-furfuraldehyde semicarbazone
- 5-Nitrofuraldehyde semicarbazide
- 5-Nitrofurane-2-aldehyde semicarbazone
- 5-Nitrofurazone
- 5-Nitrofurfural semicarbazone
- 6-Nitrofuraldehyde semicarbazide
- Actin-N
- Aldomycin
- Alfucin
- Amifur
- Babrocid
- Becafurazone
- Biofuracina
- Biofurea
- Chemofuran
- Chixin
- Cocafurin
- Coxistat
- Dermofural
- Dymazone
- Dynazone
- Eldezol
- Eldezol F-6
- Fedacin
- Flavazone
- Fracine
- Fura-Septin
- Furacilin
- Furacilinum

Furacillin  
Furacin  
Furacin-HC  
Furacine  
Furacinetten  
Furacoccid  
Furacort  
Furacycline  
Furaderm  
Furagent  
Furalcyn  
Furaldon  
Furalone  
Furametral  
Furan-Ofteno  
Furaplast  
Furaseptyl  
Furaskin  
Furatsilin  
Furaziline  
Furazin  
Furazina  
Furazol W  
Furazone  
Furazyme  
Furesol  
Furfurin  
Furosem  
Fuvacillin  
Hemofuran  
Hydrazinecarboxamide, 2-[(5-nitro-2-furanyl)methylene]-  
Ibiofural  
Mammex  
Mastofuran  
Monafuracin  
Monafuracis  
Monofuracin  
NCI-C56064  
NF-7  
NFS  
NFZ  
NSC-2100  
Nefco

Nfz mix  
 Nifucin  
 Nifurid  
 Nifuzon  
 Nitrofural  
 Nitrofuraldehyde semicarbazone  
 Nitrofuran  
 Nitrofuran (bactericide)  
 Nitrofurazan  
 Nitrofurol  
 Nitrozone  
 Otofural  
 Otofuran  
 Sanfuran  
 Semikarbazon 5-nitrofurfuralu  
 Semioxamazide, 1-(5-nitrofurfurylidene)-  
 Spray-Dermis  
 Spray-Foral  
 U-6421  
 USAF EA-4  
 Vabrocid  
 Vadrocid  
 Veterinary Nitrofurazone  
 Yatrocin

**Inchi:** InChI=1S/C6H6N4O4/c7-6(11)9-8-3-4-1-2-5(14-4)10(12)13/h1-3H,(H3,7,9,11)  
**InchiKey:** IAIWVQXQOWNYOU-UHFFFAOYSA-N  
**Formula:** C6H6N4O4  
**SMILES:** NC(=O)NN=Cc1ccc([N+](=O)[O-])o1  
**Mol. weight [g/mol]:** 198.14  
**CAS:** 59-87-0

## Physical Properties

Property code	Value	Unit	Source
chs	-2995.00 ± 1.00	kJ/mol	NIST Webbook
hfs	-223.60 ± 1.30	kJ/mol	NIST Webbook
log10ws	-2.92		Aqueous Solubility Prediction Method
logp	0.190		Crippen Method
mcvol	126.440	ml/mol	McGowan Method

# Sources

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

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

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C59870&Units=SI>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307I>

# Legend

<b>chs:</b>	Standard solid enthalpy of combustion
<b>hfs:</b>	Solid phase enthalpy of formation 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

Latest version available from:

<https://www.cheméo.com/cid/28-654-5/Nitrofurazone.pdf>

Generated by Cheméo on 2024-04-23 09:54:46.230150476 +0000 UTC m=+16155335.150727797.

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