

Niflumic acid

Other names:

2-(3-(Trifluoromethyl)-phenyl)aminonicotinic acid
2-[3-(Trifluoromethyl)anilino]-3-pyridinecarboxylic acid
2-[3-(Trifluoromethyl)anilino]nicotinic acid
2-[3-(Trifluoromethyl)anilino]nicotinic acid (niflumic acid)
2-[[3-(trifluoromethyl)phenyl]amino]-3-pyridinecarboxylic acid
3- pyridinecarboxylic acid, 2-[[3-(trifluoromethyl)phenyl]amino]-
3-Pyridinecarboxylic acid, 2-[[3-(trifluoromethyl)phenyl]amino]-
Acide niflunique
Acido niflumico
Actol
Actol, analgesic
Flogovital
Forenol
Landruma
Nicotinic acid, 2-(«alpha», «alpha», «alpha»-trifluoro-m-toluidino)-
Nicotinic acid, 2-($\hat{\text{A}}$ «alpha $\hat{\text{A}}$ », $\hat{\text{A}}$ «alpha $\hat{\text{A}}$ », $\hat{\text{A}}$ «alpha $\hat{\text{A}}$ »-trifluoro-m-toluidino)-
Niflamol
Niflumic acid
Nifluril
UP 83

Inchi: InChI=1S/C13H9F3N2O2/c14-13(15,16)8-3-1-4-9(7-8)18-11-10(12(19)20)5-2-6-17-11/h1

InchiKey: JZFPYUNJRRFVQU-UHFFFAOYSA-N

Formula: C13H9F3N2O2

SMILES: O=C(O)c1cccnc1Nc1cccc(C(F)(F)F)c1

Mol. weight [g/mol]: 282.22

CAS: 4394-00-7

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------------|--------|--------------------------------------|
| hsub | 130.20 ± 0.80 | kJ/mol | NIST Webbook |
| hvap | 107.50 | kJ/mol | NIST Webbook |
| log10ws | -4.00 | | Aqueous Solubility Prediction Method |
| logp | 3.542 | | Crippen Method |
| mcvol | 179.220 | ml/mol | McGowan Method |
| rinpol | 2093.00 | | NIST Webbook |

| | | | |
|----|---------------|---|--|
| tf | 477.15 | K | Determination, correlation and prediction of the solubilities of niflumic acid, clofenamic acid and tolfenamic acid in supercritical CO ₂ |
| tf | 476.00 ± 0.10 | K | NIST Webbook |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|---------------|--------|-----------------|--------------|
| hfust | 36.50 | kJ/mol | 478.00 | NIST Webbook |
| hfust | 35.70 | kJ/mol | 476.40 | NIST Webbook |
| hfust | 32.73 | kJ/mol | 477.20 | NIST Webbook |
| hfust | 38.00 | kJ/mol | 476.00 | NIST Webbook |
| hsubt | 127.80 ± 0.80 | kJ/mol | 375.50 | NIST Webbook |

Sources

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C4394007&Units=SI>

Crippen Method:

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

Determination, correlation and prediction of the solubilities of niflumic acid, clofenamic acid and tolfenamic acid in supercritical CO₂.
 Solubilities of Organic Semirefractors and Nonsteroidal Anti-inflammatory Drugs in Pure and Mixed Organic Solvents: Measurement and Modeling With Hansen Solubility Parameter:

<https://www.doi.org/10.1016/j.fluid.2015.02.007>

<https://www.doi.org/10.1021/acs.jced.8b00536>

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

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

Legend

| | |
|-----------------|---|
| hfust: | Enthalpy of fusion at a given temperature |
| hsub: | Enthalpy of sublimation at standard conditions |
| hsubt: | Enthalpy of sublimation at a given temperature |
| hvap: | Enthalpy of vaporization at standard conditions |
| log10ws: | Log10 of Water solubility in mol/l |
| logp: | Octanol/Water partition coefficient |
| mcvol: | McGowan's characteristic volume |
| rinpol: | Non-polar retention indices |
| tf: | Normal melting (fusion) point |

Latest version available from:

<https://www.cheméo.com/cid/68-581-2/Niflumic-acid.pdf>

Generated by Cheméo on 2024-04-28 21:16:00.157702265 +0000 UTC m=+16628209.078279581.

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