

Piroxicam

Other names:

2H-1,2-Benzothiazine-3-carboxamide, 4-hydroxy-2-methyl-N-2-pyridinyl-,
1,1-dioxide
2H-1,2-benzothiazine-3-carboxamide-4-hydroxy-2-methyl-N-2-pyridinyl-1,1-dioxide
(piroxicam)
4-Hydroxy-2-methyl-N-(2-pyridyl)-2H-1,2-benzothiazin-3-carboxamid-1,1-dioxid
4-Hydroxy-2-methyl-N-(2-pyridyl)-2H-1,2-benzothiazine-3-carboxamide-1,1-dioxide
4-Hydroxy-2-methyl-N-2-pyridinyl-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide
4-hydroxy-2-methyl-N-2-pyridinyl-2H-1,2-benzothiazine-3-carboxamide 1,1-dioxide
Artroxicam
Baxo
Bruxicam
CHF 1251
CP 16171
Caliment
Erazon
Feldene
Flogobene
Geldene
Improntal
Larapam
NSC 666076
Pirkam
Piroflex
Piroftal
Pyroxycam
Reudene
Riacen
Roxicam
Roxiden
Sasulen
Solocalm
Zunden
dolonex

Inchi:

InChI=1S/C15H13N3O4S/c1-18-13(15(20)17-12-8-4-5-9-16-12)14(19)10-6-2-3-7-11(10)2

InchiKey:

QYSPLQLAKJAUJT-UHFFFAOYSA-N

Formula:

C15H13N3O4S

SMILES:

CN1C(C(=O)Nc2ccccn2)=C(O)c2ccccc2S1(=O)=O

Mol. weight [g/mol]:

331.35

CAS:

36322-90-4

Physical Properties

Property code	Value	Unit	Source
log10ws	-4.16		Estimated Solubility Method
logp	1.581		Crippen Method
mcvol	225.000	ml/mol	McGowan Method
rinpol	1413.00		NIST Webbook
rinpol	1413.00		NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	35.00	kJ/mol	473.90	NIST Webbook
hfust	36.30	kJ/mol	473.40	NIST Webbook
hfust	34.50	kJ/mol	473.00	NIST Webbook
hfust	35.00	kJ/mol	474.50	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C36322904&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Measurement and modeling of mefenamic acid solubility in supercritical carbon dioxide:	https://www.doi.org/10.1016/j.fluid.2011.09.031
Thermophysical properties of L-Alanine/L-Valine in aqueous solutions:	https://www.doi.org/10.1016/j.jct.2018.03.022
Solubility Measurement of Diclofenac Acid in the Supercritical CO ₂ :	https://www.doi.org/10.1021/je200012x
Estimated Solubility Method:	http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt
Volumetric and acoustic approach:	

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

rinpol: Non-polar retention indices

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