

Sulfamethoxazole

Other names:

3-(para-Aminophenylsulphonamido)-5-methylisoxazole
3-Sulfanilamido-5-methylisoxazole
4-Amino-N-(5-methyl-3-isoxazolyl)benzenesulfonamide
5-Methyl-3-sulfanilamidoisoxazole
5-Methyl-3-sulfonylamidoisoxazole
A047
Azo-gantanol
Bactrim
Benzenesulfonamide, 4-amino-N-(5-methyl-3-isoxazolyl)-
Gantanol
MS 53
Metoxal
N
N'-(5-Methyl-3-isoxazole)sulfanilamide
N'-(5-Methyl-3-isoxazolyl)sulfanilamide
N'-(5-Methylisoxazol-3-yl)sulphanilamide
N1-(5-Methyl-3-isoxazolyl)sulfanilamide
Radonil
Ro 4-2130
Ro 6-2580/11
Simsinomin
Sinomin
Sulfamethalazole
Sulfamethoxazol
Sulfamethylisoxazole
Sulfanilamide, N'-(5-methyl-3-isoxazolyl)-
Sulfanilamide, N1-(5-methyl-3-isoxazolyl)-
Sulfisomezole
Sulphamethoxazole

Inchi:

InChI=1S/C10H11N3O3S/c1-7-6-10(12-16-7)13-17(14,15)9-4-2-8(11)3-5-9/h2-6H,11H2,1

InchiKey:

JLKIGFTWXXRPMT-UHFFFAOYSA-N

Formula:

C10H11N3O3S

SMILES:

Cc1cc(NS(=O)(=O)c2ccc(N)cc2)no1

Mol. weight [g/mol]:

253.28

CAS:

723-46-6

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.78		Aqueous Solubility Prediction Method
logp	1.366		Crippen Method
mcvol	172.440	ml/mol	McGowan Method
rinpol	2387.00		NIST Webbook
tf	439.50 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	33.80	kJ/mol	440.70	NIST Webbook
hfust	35.26	kJ/mol	440.00	NIST Webbook

Sources

Solubilities of Sulfamethazine, Sulfadimethoxine, Sulfamethoxazole, Sulfamonomethoxine, Sulfamethoxazole, and Sulfachloropyridazine in Water from (298.15 to 333.15) K: Aqueous Solubility Prediction Method: McGowan Method: and Crippen Method:

<https://www.doi.org/10.1021/je800867a>

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

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

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C723466&Units=SI>

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Solubilities of Sulfadiazine, Sulfamethazine, Sulfadimethoxine, Sulfamethoxydiazine, Sulfamonomethoxine, Sulfamethoxazole, and Sulfachloropyridazine in Water from (298.15 to 333.15) K:

<https://www.doi.org/10.1021/je0603978>

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
tf: Normal melting (fusion) point

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