

Sulfamethazine

Other names:

(p-Aminobenzolsulfonyl)-2-amino-4,6-dimethylpyrimidin
2-(4-Aminobenzenesulfonamido)-4,6-dimethylpyrimidine
2-(4-Aminobenzenesulfonylamino)-4,6-dimethylpyrimidine
2-(4-Aminobenzenesulfonylamino)-4,6-dimethylpyrimidine (sulfamethazine)
2-(p-Aminobenzenesulfonamido)-4,6-dimethylpyrimidine
2-Sulfanilamido-4,6-dimethylpyrimidine
4,6-Dimethyl-2-sulfanilamidopyrimidine
4-Amino-N-(2,6-dimethyl-4-pyrimidinyl)benzenesulfonamide
4-Amino-N-(4,6-dimethyl-2-pyrimidinyl)benzenesulfonamide
6-(4'-Aminobenzol-sulfonamido)-2,4-dimethylpyrimidin
A-502
Azolmetazin
Benzenesulfonamide, 4-amino-N-(2,6-dimethyl-4-pyrimidinyl)-
Calfspan
Calfspan tablets
Cremomethazine
Diazil
Diazilsulfadine
Diazyl
Dimezathine
Dimidim-R
Dimidin-R
Hava-Span
Intradine
Kelametazine
Mermeth
Metazin
N(Sup1)-(4,6-Dimethyl-2-pyrimidinyl)sulfanilamide
N(Sup1)-(4,6-Dimethyl-2-pyrimidyl)sulfanilamide
N(sup1)-(2,6-Dimethylpyrimid-4-yl)sulfanilamide
N-(4,6-Dimethyl-2-pyrimidyl)sulfanilamide
N1-(4,6-Dimethyl-2-pyrimidinyl)sulfanilamide
N1-(4,6-Dimethyl-2-pyrimidyl)sulfanilamide
NCI-C56600
Neasina
Neazina
Panazin
Pirmazin
Primazin
S-Dimidine

SA III
Spanbolet
Sulfa-Isodimerazine
SulfaSURE SR Bolus
Sulfadimerazine
Sulfadimesin
Sulfadimesine
Sulfadimethyldiazine
Sulfadimethylpyrimidine
Sulfadimezin
Sulfadimezine
Sulfadimidin
Sulfadimidine
Sulfadine
Sulfaisodimidine
Sulfametazyny
Sulfamethiazine
Sulfamethin
Sulfamezathine
Sulfamidine
Sulfanilamide, N(sup1)-(4,6-dimethyl-2-pyrimidinyl)-
Sulfanilamide, N1-(4,6-dimethyl-2-pyrimidinyl)-
Sulfisomidin
Sulfodimesin
Sulfodimezine
Sulka K Boluses
Sulmet
Sulphadimethylpyrimidine
Sulphadimidine
Sulphamethasine
Sulphamethazine
Sulphamezathine
Sulphamidine
Sulphodimezine
Superseptil
Superseptyl
Vertolan

Inchi:

benzenesulfonamide, 4-amino-N-(4,6-dimethyl-2-pyrimidinyl)-
InChI=1S/C12H14N4O2S/c1-8-7-9(2)15-12(14-8)16-19(17,18)11-5-3-10(13)4-6-11/h3-7H

InchiKey:

ASWVTGNCAZCNR-UHFFFAOYSA-N

Formula:

C12H14N4O2S

SMILES:

Cc1cc(C)nc(NS(=O)(=O)c2ccc(N)cc2)n1

Mol. weight [g/mol]:

278.33

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.51		Aqueous Solubility Prediction Method
logp	1.476		Crippen Method
mcvol	200.430	ml/mol	McGowan Method
rinpol	2613.00		NIST Webbook
tf	469.20	K	Solution thermodynamics and preferential solvation of sulfamethazine in (methanol + water) mixtures
tf	468.60 ± 2.00	K	NIST Webbook
tf	471.70 ± 0.50	K	NIST Webbook
tf	467.65	K	Aqueous Solubility Prediction Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
hfust	39.20	kJ/mol	469.00	NIST Webbook
hfust	31.10	kJ/mol	471.60	NIST Webbook

Sources

McGowan Method:

NIST Webbook:

Crippen Method:

Solubility and solution thermodynamics of sulfamerazine and sulfamethazine in some ethanol + water mixtures: preferential solvation of sulfamethazine in methanol + water mixtures: Sulfamethazine, Sulfadimethoxine, Sulfamethoxazole, and Sulfamonomethoxine, Sulfadimethoxine, Sulfamethoxazole, and Sulfamonomethoxine in Water from 298.15 to 333.15 K: and Sulfaquinoxaline in 1-Octanol from (298.15 to 333.15) K:

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

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C57681&Units=SI>

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

<https://www.doi.org/10.1016/j.fluid.2013.09.018>

<https://www.doi.org/10.1016/j.jct.2016.02.002>

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

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

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

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
rinpola:	Non-polar retention indices
tf:	Normal melting (fusion) point

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