BENZENESULFONAMIDE, 4-AMINO-N-(4,6-DIMETHYL-2-PYRIMIDINYL)-

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-pyrimidyl)sulfanilamide
N1-(4,6-dimethyl-2-pyrimidinyl)sulfanilamide
NCI-C56600
Neasina
Neazina
Panazin
Pirmazin
Primazin
S-Dimidine

SA III
Spanbolet
Sulfa-Isodimerazine
SulfaSURE SR Bolus
Sulfadimesin
Sulfadimesine
Sulfadimethyldiazine
Sulfadimethylpyrimidine
Sulfadimezin
Sulfadimezine
Sulfadimidin
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
sulfadimerazine
sulfadimidine
sulfamethazine

Inchi: 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: ASWVTGNCAZCNNR-UHFFFAOYSA-N

Formula: C12H14N4O2S

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

Mol. weight [g/mol]: 278.34

Physical Properties

Property code	Value	Unit	Source
hvap	122.17	kJ/mol	Cheméo Relay (1.0)
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	467.65	K	Aqueous Solubility Prediction Method
tf	468.60 ± 2.00	K	NIST Webbook
tf	471.70 ± 0.50	K	NIST Webbook

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

Solubility and solution thermodynamics of sulfamerazine and sulfamethazine in some ethanol + water mixtures:	https://www.doi.org/10.1016/j.fluid.2013.09.018
Solubilities of Sulfadiazine, Sulfamethazine, Sulfadimethoxine, Sulfamethoxydiazine, Sulfamonomethoxine, Sulfamethoxazole, and Sulfachloropyrazine in Water from (298.15 to 333.15) K:	https://www.doi.org/10.1021/je0603978
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Cheméo Relay (1.0, beta):	
Solubilities of Sulfamethazine, Sulfadimethoxine, Sulfamethoxydiazine, Sulfamonomethoxine, Sulfamethoxazole, and Sulfaquinoxaline in 1-Octanol from (298.15 to 333.15) K:	https://www.doi.org/10.1021/je800867a
Solution thermodynamics and preferential solvation of sulfamethazine in (methanol + water) mixtures:	https://www.doi.org/10.1016/j.jct.2016.02.002
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C57681&Units=SI
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

hfust:	Enthalpy of fusion 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