

sulfamethizole

Other names:	4-Amino-N-(5-methyl-1,3,4-thiadiazol-2-yl)benzenesulfonamide
Inchi:	InChI=1S/C9H10N4O2S2/c1-6-11-12-9(16-6)13-17(14,15)8-4-2-7(10)3-5-8/h2-5H,10H2,1
InchiKey:	VACCAVUAMIDAGB-UHFFFAOYSA-N
Formula:	C9H10N4O2S2
SMILES:	<chem>Cc1nnc(NS(=O)(=O)c2ccc(N)cc2)s1</chem>
Mol. weight [g/mol]:	270.34

Physical Properties

Property code	Value	Unit	Source
log10ws	-2.71		Aqueous Solubility Prediction Method
log10ws	-2.78		Aqueous Solubility Prediction Method
logp	1.230		Crippen Method
mcvol	178.810	ml/mol	McGowan Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa
Aqueous Solubility Prediction Method:	http://onschallenge.wikispaces.com/file/view/AqueousDataset003.xlsx/351830174/AqueousDa
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume

Latest version available from:

<https://www.chemeo.com/cid/110-083-7/sulfamethizole.pdf>

Generated by Cheméo on 2025-12-05 06:01:22.254960754 +0000 UTC m=+4662679.785001424.

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