

5-Acetamido-1,3,4-thiadiazole-2-sulfonamide

Other names:

- 1,3,4-Thiadiazole-2-sulfonamide, 5-acetamido-
- 2-Acetamido-1,3,4-thiadiazole-5-sulfonamide
- 2-Acetamido-5-sulfonamido-1,3,4-thiadiazole
- 2-Acetylamino-1,3,4-thiadiazole-5-sulfonamide
- 4-Diamox
- 5-Acetamide-1,3,4-thiadiazole-2-sulfonamide
- 5-Acetamido-1,3,4-thiadiazol-2-sulfonamide
- Acetamide, N-(5-sulfamoyl-1,3,4-thiadiazol-2-yl)-
- Acetamide, N-[5-(aminosulfonyl)-1,3,4-thiadiazol-2-yl]-
- Acetamidothiadiazolesulfonamide
- Acetamox
- Acetazolamid
- Acetazoleamide
- Acetozalamide
- Atenezol
- Carbonic anhydrase inhibitor 6063
- Carbonic anhydrase inhibitor no. 6063
- Cidamex
- Defiltran
- Dehydratin
- Diacarb
- Diakarb
- Diamox
- Didoc
- Diluran
- Diuramid
- Diureticum-holzinger
- Diuriwas
- Diutazol
- Donmox
- Duiramid
- Edemox
- Eumicton
- Fonurit
- Glaupax
- Glupax
- N-(5-(Aminosulfonyl)-1,3,4-thiadiazol-2-yl)acetamide
- N-(5-Sulfamoyl-1,3,4-thiadiazol-2-yl)acetamide
- NSC 145177
- Natrionex

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|-----------------------------|---|
| | Nephramid |
| | Nephramide |
| | Phonurit |
| | SK-acetazolamide |
| | Vetamox |
| | acetazolamide |
| Inchi: | InChI=1S/C4H6N4O3S2/c1-2(9)6-3-7-8-4(12-3)13(5,10)11/h1H3,(H2,5,10,11)(H,6,7,9) |
| InchiKey: | BZKPWHYZMXOIDC-UHFFFAOYSA-N |
| Formula: | C4H6N4O3S2 |
| SMILES: | CC(=O)Nc1nnc(S(N)(=O)=O)s1 |
| Mol. weight [g/mol]: | 222.25 |
| CAS: | 59-66-5 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|--------|---|
| log10ws | -2.44 | | Aqueous Solubility Prediction Method |
| log10ws | -2.36 | | Estimated Solubility Method |
| log10ws | -2.49 | | Aqueous and cosolvent solubility data for drug-like organic compounds |
| logp | -0.856 | | Crippen Method |
| mcvol | 133.690 | ml/mol | McGowan Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|-------|--------|-----------------|--------------|
| hfust | 28.60 | kJ/mol | 532.20 | NIST Webbook |

Sources

| | |
|---|---|
| Estimated Solubility Method: | http://pubs.acs.org/doi/suppl/10.1021/ci034243x/suppl_file/ci034243xsi20040112_053635.txt |
| Aqueous and cosolvent solubility data for drug-like organic compounds: | https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2751500/ |
| McGowan Method: | http://link.springer.com/article/10.1007/BF02311772 |

NIST Webbook: <http://webbook.nist.gov/cgi/cbook.cgi?ID=C59665&Units=SI>

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Aqueous Solubility Prediction Method: <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa>

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

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