# 8-HYDROXY-5-QUINOLINESULFONIC ACID

| | |
|---|---|
| **Other names:** | 5-Quinolinesulfonic acid, 8-hydroxy- |
| | Oxine-5-sulfonic acid |
| | 5-Sulfo-8-hydroxyquinoline |
| | 5-Sulfo-8-quinolinol |
| | 5-Sulfooxine |
| | 8-Hydroxy-5-quinolinesulfonic acid |
| | 8-Hydroxy-5-sulfoquinoline |
| | 8-Hydroxyquinoline-5-sulfonate |
| | 8-Hydroxyquinoline-5-sulphonic acid |
| | 8-Quinolinol-5-sulfonic acid |
| | Sulfoxine |
| | 8-Oxyquinoline-5-sulfonic acid |
| | NSC 13139 |
| **Inchi:** | InChI=1S/C9H7NO4S/c11-7-3-4-8(15(12,13)14)6-2-1-5-10-9(6)7/h1-5,11H,(H,12,13,14) |
| **InchiKey:** | LGDFHDKSYGVKDC-UHFFFAOYSA-N |
| **Formula:** | C9H7NO4S |
| **SMILES:** | O=S(=O)(O)c1ccc(O)c2ncccc12 |
| **Mol. weight [g/mol]:** | 225.23 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -489.52 | kJ/mol | Cheméo Relay (1.0) |
| log10ws | -0.94 | | Cheméo Relay (1.0) |
| logp | 1.187 | | Crippen Method |
| mcvol | 144.260 | ml/mol | McGowan Method |
| tf | 505.70 | K | Cheméo Relay (1.0) |

## Sources

| | |
|---|---|
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C84888&Units=SI |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

| | |
|---|---|
| **hf:** | Enthalpy of formation at standard conditions |
| **log10ws:** | Log10 of Water solubility in mol/l |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tf:** | Normal melting (fusion) point |