# Phenethylsulfamide

**Inchi:** InChI=1S/C8H12N2O2S/c9-13(11,12)10-7-6-8-4-2-1-3-5-8/h1-5,10H,6-7H2,(H2,9,11,12)
**InchiKey:** PJPREWNCIPMGIS-UHFFFAOYSA-N
**Formula:** C8H12N2O2S
**SMILES:** NS(=O)(=O)NCCc1ccccc1
**Mol. weight [g/mol]:** 200.26
**CAS:** 710-15-6

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -183.81 | kJ/mol | Joback Method |
| hf | -338.01 | kJ/mol | Joback Method |
| hfus | 32.19 | kJ/mol | Joback Method |
| hvap | 71.39 | kJ/mol | Joback Method |
| log10ws | -1.71 | | Crippen Method |
| logp | 0.022 | | Crippen Method |
| mcvol | 147.870 | ml/mol | McGowan Method |
| pc | 4890.21 | kPa | Joback Method |
| tb | 579.60 | K | Joback Method |
| tc | 794.27 | K | Joback Method |
| tf | 380.82 | K | Joback Method |
| vc | 0.566 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 352.36 | J/mol×K | 579.60 | Joback Method |
| cpg | 365.55 | J/mol×K | 615.38 | Joback Method |
| cpg | 377.87 | J/mol×K | 651.16 | Joback Method |
| cpg | 389.32 | J/mol×K | 686.94 | Joback Method |
| cpg | 399.93 | J/mol×K | 722.72 | Joback Method |
| cpg | 409.71 | J/mol×K | 758.50 | Joback Method |
| cpg | 418.69 | J/mol×K | 794.27 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C710156&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **gf:** | Standard Gibbs free energy of formation |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **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 |
| **pc:** | Critical Pressure |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |

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