# 1-Phenazinecarbohydrazide

**Other names:** 1-Phenazinecarboxylic acid hydrazide
**Inchi:** InChI=1S/C13H10N4O/c14-17-13(18)8-4-3-7-11-12(8)16-10-6-2-1-5-9(10)15-11/h1-7H,1
**InchiKey:** HHMALMVKWZOZLO-UHFFFAOYSA-N
**Formula:** C13H10N4O
**SMILES:** NNC(=O)c1cccc2nc3ccccc3nc12
**Mol. weight [g/mol]:** 238.24
**CAS:** 14031-13-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| log10ws | -4.96 | | Crippen Method |
| logp | 1.387 | | Crippen Method |
| mcvol | 172.840 | ml/mol | McGowan Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| hfust | 27.62 | kJ/mol | 505.00 | NIST Webbook |

## Sources

**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l
**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C14031131&Units=SI

## 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 |