# Phenoxypropazine

**Inchi:** InChI=1S/C9H14N2O/c1-8(11-10)7-12-9-5-3-2-4-6-9/h2-6,8,11H,7,10H2,1H3
**InchiKey:** QNEXFJFTGQBXBJ-UHFFFAOYSA-N
**Formula:** C9H14N2O
**SMILES:** CC(COc1ccccc1)NN
**Mol. weight [g/mol]:** 166.22
**CAS:** 3818-37-9

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 185.71 | kJ/mol | Joback Method |
| hf | -42.80 | kJ/mol | Joback Method |
| hfus | 21.07 | kJ/mol | Joback Method |
| hvap | 57.00 | kJ/mol | Joback Method |
| log10ws | -2.15 | | Crippen Method |
| logp | 0.917 | | Crippen Method |
| mcvol | 139.740 | ml/mol | McGowan Method |
| pc | 3501.28 | kPa | Joback Method |
| rinpol | 1468.00 | | NIST Webbook |
| rinpol | 1468.00 | | NIST Webbook |
| tb | 576.68 | K | Joback Method |
| tc | 798.25 | K | Joback Method |
| tf | 360.76 | K | Joback Method |
| vc | 0.507 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 343.03 | J/mol×K | 576.68 | Joback Method |
| cpg | 357.11 | J/mol×K | 613.61 | Joback Method |
| cpg | 370.30 | J/mol×K | 650.54 | Joback Method |
| cpg | 382.66 | J/mol×K | 687.46 | Joback Method |
| cpg | 394.19 | J/mol×K | 724.39 | Joback Method |
| cpg | 404.93 | J/mol×K | 761.32 | Joback Method |
| cpg | 414.90 | J/mol×K | 798.25 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C3818379&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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |