# 2,5-Dimethylbenzylamine

**Inchi:** InChI=1S/C9H13N/c1-7-3-4-8(2)9(5-7)6-10/h3-5H,6,10H2,1-2H3
**InchiKey:** LUJNPFWZXIGIPS-UHFFFAOYSA-N
**Formula:** C9H13N
**SMILES:** Cc1ccc(C)c(CN)c1
**Mol. weight [g/mol]:** 135.21
**CAS:** 93-48-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 184.50 | kJ/mol | Joback Method |
| hf | 18.29 | kJ/mol | Joback Method |
| hfus | 17.53 | kJ/mol | Joback Method |
| hvap | 49.87 | kJ/mol | Joback Method |
| log10ws | -2.74 | | Crippen Method |
| logp | 1.762 | | Crippen Method |
| mcvol | 123.890 | ml/mol | McGowan Method |
| pc | 3364.54 | kPa | Joback Method |
| rinpol | 1200.00 | | NIST Webbook |
| rinpol | 1200.00 | | NIST Webbook |
| tb | 514.49 | K | Joback Method |
| tc | 736.31 | K | Joback Method |
| tf | 325.91 | K | Joback Method |
| vc | 0.461 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 271.48 | J/mol×K | 514.49 | Joback Method |
| cpg | 284.80 | J/mol×K | 551.46 | Joback Method |
| cpg | 297.37 | J/mol×K | 588.43 | Joback Method |
| cpg | 309.24 | J/mol×K | 625.40 | Joback Method |
| cpg | 320.42 | J/mol×K | 662.37 | Joback Method |
| cpg | 330.93 | J/mol×K | 699.34 | Joback Method |
| cpg | 340.81 | J/mol×K | 736.31 | Joback Method |

# Sources

| | |
|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C93481&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

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|---|---|
| **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 |