# 2-Chloro-6-methylbenzylamine

**Inchi:** InChI=1S/C8H10ClN/c1-6-3-2-4-8(9)7(6)5-10/h2-4H,5,10H2,1H3
**InchiKey:** WPQIAYXZZULKMV-UHFFFAOYSA-N
**Formula:** C8H10ClN
**SMILES:** Cc1cccc(Cl)c1CN
**Mol. weight [g/mol]:** 155.62
**CAS:** 57264-46-7

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 164.15 | kJ/mol | Joback Method |
| hf | 23.19 | kJ/mol | Joback Method |
| hfus | 19.13 | kJ/mol | Joback Method |
| hvap | 52.03 | kJ/mol | Joback Method |
| log10ws | -2.95 | | Crippen Method |
| logp | 2.107 | | Crippen Method |
| mcvol | 122.040 | ml/mol | McGowan Method |
| pc | 3607.21 | kPa | Joback Method |
| tb | 529.04 | K | Joback Method |
| tc | 759.83 | K | Joback Method |
| tf | 344.56 | K | Joback Method |
| vc | 0.454 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 253.03 | J/mol×K | 529.04 | Joback Method |
| cpg | 264.50 | J/mol×K | 567.51 | Joback Method |
| cpg | 275.27 | J/mol×K | 605.97 | Joback Method |
| cpg | 285.37 | J/mol×K | 644.44 | Joback Method |
| cpg | 294.82 | J/mol×K | 682.90 | Joback Method |
| cpg | 303.66 | J/mol×K | 721.37 | Joback Method |
| cpg | 311.90 | J/mol×K | 759.83 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C57264467&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 |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |

# 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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |