# Benzenemethanamine, 2,4-dichloro-

**Other names:** Benzylamine, 2,4-dichloro-
2,4-Dichlorobenzylamine
**Inchi:** InChI=1S/C7H7Cl2N/c8-6-2-1-5(4-10)7(9)3-6/h1-3H,4,10H2
**InchiKey:** SJUKJZSTBBSGHF-UHFFFAOYSA-N
**Formula:** C7H7Cl2N
**SMILES:** NCc1ccc(Cl)cc1Cl
**Mol. weight [g/mol]:** 176.04
**CAS:** 95-00-1

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 143.80 | kJ/mol | Joback Method |
| hf | 28.09 | kJ/mol | Joback Method |
| hfus | 20.74 | kJ/mol | Joback Method |
| hvap | 54.19 | kJ/mol | Joback Method |
| log10ws | -3.15 | | Crippen Method |
| logp | 2.452 | | Crippen Method |
| mcvol | 120.190 | ml/mol | McGowan Method |
| pc | 3877.12 | kPa | Joback Method |
| tb | 543.59 | K | Joback Method |
| tc | 783.56 | K | Joback Method |
| tf | 363.21 | K | Joback Method |
| vc | 0.447 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 232.87 | J/mol×K | 543.59 | Joback Method |
| cpg | 242.40 | J/mol×K | 583.58 | Joback Method |
| cpg | 251.28 | J/mol×K | 623.58 | Joback Method |
| cpg | 259.54 | J/mol×K | 663.57 | Joback Method |
| cpg | 267.20 | J/mol×K | 703.57 | Joback Method |
| cpg | 274.29 | J/mol×K | 743.56 | Joback Method |
| cpg | 280.86 | J/mol×K | 783.56 | Joback Method |

# Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 356.70 | K | 0.70 | NIST Webbook |

# Sources

| | |
|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C95001&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# 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 |
| **tbrp:** | Boiling point at reduced pressure |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |