# 3-METHOXYBENZYLAMINE

**Other names:** Benzenemethanamine, 3-methoxy-
Benzylamine, m-methoxy-
m-Methoxybenzylamine
**Inchi:** InChI=1S/C8H11NO/c1-10-8-4-2-3-7(5-8)6-9/h2-5H,6,9H2,1H3
**InchiKey:** GRRIMVWABNHKBX-UHFFFAOYSA-N
**Formula:** C8H11NO
**SMILES:** COc1cccc(CN)c1
**Mol. weight [g/mol]:** 137.18

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -71.84 | kJ/mol | Cheméo Relay (1.0) |
| hfus | 16.51 | kJ/mol | Joback Method |
| hvap | 64.77 | kJ/mol | Cheméo Relay (1.0) |
| ie | 8.07 | eV | Cheméo Relay (1.0) |
| log10ws | -1.14 | | Cheméo Relay (1.0) |
| logp | 1.154 | | Crippen Method |
| mcvol | 115.670 | ml/mol | McGowan Method |
| pc | 3763.78 | kPa | Joback Method |
| tb | 507.34 | K | Cheméo Relay (1.0) |
| tc | 710.75 | K | Cheméo Relay (1.0) |
| tf | 249.03 | K | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 251.29 | J/mol×K | 509.05 | Joback Method |
| cpg | 263.62 | J/mol×K | 546.04 | Joback Method |
| cpg | 275.28 | J/mol×K | 583.03 | Joback Method |
| cpg | 286.30 | J/mol×K | 620.01 | Joback Method |
| cpg | 296.69 | J/mol×K | 657.00 | Joback Method |
| cpg | 306.45 | J/mol×K | 693.99 | Joback Method |
| cpg | 315.60 | J/mol×K | 730.98 | Joback Method |

# Pressure Dependent Properties

| Property code | Value | Unit | Pressure [kPa] | Source |
|---|---|---|---|---|
| tbrp | 413.20 | K | 4.90 | NIST Webbook |

# Sources

**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws
**Cheméo Relay (1.0):**
**Cheméo Relay (1.0, beta):**
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C5071965&Units=SI
**Joback Method:** https://en.wikipedia.org/wiki/Joback_method
**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

# Legend

**cpg:** Ideal gas heat capacity
**hf:** Enthalpy of formation at standard conditions
**hfus:** Enthalpy of fusion at standard conditions
**hvap:** Enthalpy of vaporization at standard conditions
**ie:** Ionization energy
**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

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.