# Benzaldehyde, oxime

**Other names:** Benzaldoxime
**Inchi:** InChI=1S/C7H7NO/c9-8-6-7-4-2-1-3-5-7/h1-6,9H
**InchiKey:** VTWKXBJHBHYJBI-UHFFFAOYSA-N
**Formula:** C7H7NO
**SMILES:** ON=Cc1ccccc1
**Mol. weight [g/mol]:** 121.14
**CAS:** 932-90-1

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| chs | -3797.00 | kJ/mol | NIST Webbook |
| hf | -21.29 | kJ/mol | Joback Method |
| hfs | 25.00 | kJ/mol | NIST Webbook |
| hvap | 53.44 | kJ/mol | Joback Method |
| log10ws | -0.78 | | Crippen Method |
| logp | 1.495 | | Crippen Method |
| mcvol | 97.280 | ml/mol | McGowan Method |
| pc | 4046.64 | kPa | Joback Method |
| tb | 555.10 | K | Joback Method |
| tc | 773.37 | K | Joback Method |

# 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=C932901&Units=SI
**Crippen Method:** http://pubs.acs.org/doi/abs/10.1021/ci990307l

# Legend

| | |
|---|---|
| **chs:** | Standard solid enthalpy of combustion |
| **hf:** | Enthalpy of formation at standard conditions |
| **hfs:** | Solid phase enthalpy of formation 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 |