# Benzenemethanamine, N-nitroso-N-phenyl-

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|---|---|
| **Other names:** | Benzylamine, N-nitroso-N-phenyl- |
| | Benzylphenylnitrosamine |
| | N-Benzyl-N-nitrosoaniline |
| | N-Phenyl-N-nitrosobenzylamine |
| | N-Nitrosophenylbenzylamine |
| | N-Nitroso-N-phenyl-benzylamine |
| **Inchi:** | InChI=1S/C13H12N2O/c16-14-15(13-9-5-2-6-10-13)11-12-7-3-1-4-8-12/h1-10H,11H2 |
| **InchiKey:** | BCIBCBXFXGKGBL-UHFFFAOYSA-N |
| **Formula:** | C13H12N2O |
| **SMILES:** | O=NN(Cc1ccccc1)c1ccccc1 |
| **Mol. weight [g/mol]:** | 212.25 |
| **CAS:** | 612-98-6 |

# Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | 60.75 | kJ/mol | Joback Method |
| hvap | 60.22 | kJ/mol | Joback Method |
| log10ws | -4.25 | | Crippen Method |
| logp | 3.375 | | Crippen Method |
| mcvol | 168.040 | ml/mol | McGowan Method |
| pc | 3005.73 | kPa | Joback Method |
| tb | 626.04 | K | Joback Method |
| tc | 858.75 | K | Joback Method |

# Sources

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C612986&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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|---|---|
| **hf:** | 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 |