# Benzenamine, N-ethyl-N-phenyl-

**Other names:** N,N-diphenyl-N-ethylamine
**Inchi:** InChI=1S/C14H15N/c1-2-15(13-9-5-3-6-10-13)14-11-7-4-8-12-14/h3-12H,2H2,1H3
**InchiKey:** ITMSSZATZARZCA-UHFFFAOYSA-N
**Formula:** C14H15N
**SMILES:** CCN(c1ccccc1)c1ccccc1
**Mol. weight [g/mol]:** 197.28
**CAS:** 606-99-5

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 402.60 | kJ/mol | Joback Method |
| hf | 208.30 | kJ/mol | Joback Method |
| hfus | 23.12 | kJ/mol | Joback Method |
| hvap | 53.35 | kJ/mol | Joback Method |
| log10ws | -3.59 | | Crippen Method |
| logp | 3.845 | | Crippen Method |
| mcvol | 170.580 | ml/mol | McGowan Method |
| pc | 2764.26 | kPa | Joback Method |
| tb | 585.52 | K | Joback Method |
| tc | 821.07 | K | Joback Method |
| tf | 332.85 | K | Joback Method |
| vc | 0.622 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 408.79 | J/mol×K | 585.52 | Joback Method |
| cpg | 426.97 | J/mol×K | 624.78 | Joback Method |
| cpg | 443.75 | J/mol×K | 664.04 | Joback Method |
| cpg | 459.20 | J/mol×K | 703.29 | Joback Method |
| cpg | 473.44 | J/mol×K | 742.55 | Joback Method |
| cpg | 486.53 | J/mol×K | 781.81 | Joback Method |
| cpg | 498.57 | J/mol×K | 821.07 | Joback Method |

# Sources

| | |
|---|---|
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C606995&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 |