# N-Ethyldibenzylamine

**Other names:** Benzenemethanamine, N-ethyl-N-(phenylmethyl)-
N-ethyldibenzylamine
**Inchi:** InChI=1S/C16H19N/c1-2-17(13-15-9-5-3-6-10-15)14-16-11-7-4-8-12-16/h3-12H,2,13-14H
**InchiKey:** WBGPDYJIPNTOIB-UHFFFAOYSA-N
**Formula:** C16H19N
**SMILES:** CCN(Cc1ccccc1)Cc1ccccc1
**Mol. weight [g/mol]:** 225.34

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| af | 0.4963 | | Cheméo Relay (1.0) |
| gf | 419.44 | kJ/mol | Joback Method |
| hf | 180.79 | kJ/mol | Cheméo Relay (1.0) |
| hfus | 28.30 | kJ/mol | Joback Method |
| hvap | 81.92 | kJ/mol | Cheméo Relay (1.0) |
| ie | 7.81 | eV | Cheméo Relay (1.0) |
| log10ws | -3.00 | | Cheméo Relay (1.0) |
| logp | 3.709 | | Crippen Method |
| mcvol | 198.760 | ml/mol | McGowan Method |
| pc | 2280.59 | kPa | Joback Method |
| tb | 584.08 | K | Cheméo Relay (1.0) |
| tc | 801.70 | K | Cheméo Relay (1.0) |
| tf | 268.08 | K | Cheméo Relay (1.0) |
| vc | 0.723 | m3/kmol | Cheméo Relay (1.0) |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 510.60 | J/mol×K | 631.28 | Joback Method |
| cpg | 529.50 | J/mol×K | 669.01 | Joback Method |
| cpg | 547.02 | J/mol×K | 706.74 | Joback Method |
| cpg | 563.25 | J/mol×K | 744.48 | Joback Method |
| cpg | 578.28 | J/mol×K | 782.21 | Joback Method |
| cpg | 592.18 | J/mol×K | 819.94 | Joback Method |

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|---|---|---|---|---|
| cpg | 605.05 | J/mol×K | 857.67 | Joback Method |

# Sources

**Cheméo Relay (1.0, beta):**

**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C10479251&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

**Crippen Method:** https://www.chemeo.com/doc/models/crippen_log10ws

**Cheméo Relay (1.0):**

# Legend

**af:** Acentric Factor
**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
**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
**tc:** Critical Temperature
**tf:** Normal melting (fusion) point
**vc:** Critical Volume