# 1-Pentadecanamine, N,N-dimethyl-

**Other names:** N,N-dimethylpentadecylamine
**Inchi:** InChI=1S/C17H37N/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18(2)3/h4-17H2,1-3H3
**InchiKey:** SNHHYQWNNZIBLN-UHFFFAOYSA-N
**Formula:** C17H37N
**SMILES:** CCCCCCCCCCCCCCCN(C)C
**Mol. weight [g/mol]:** 255.48
**CAS:** 17678-60-3

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 203.04 | kJ/mol | Joback Method |
| hf | -326.68 | kJ/mol | Joback Method |
| hfus | 42.81 | kJ/mol | Joback Method |
| hvap | 55.48 | kJ/mol | Joback Method |
| log10ws | -5.51 | | Crippen Method |
| logp | 5.639 | | Crippen Method |
| mcvol | 260.370 | ml/mol | McGowan Method |
| pc | 1229.42 | kPa | Joback Method |
| tb | 600.80 | K | Joback Method |
| tc | 758.95 | K | Joback Method |
| tf | 313.82 | K | Joback Method |
| vc | 1.006 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 707.48 | J/mol×K | 600.80 | Joback Method |
| cpg | 727.42 | J/mol×K | 627.16 | Joback Method |
| cpg | 746.55 | J/mol×K | 653.52 | Joback Method |
| cpg | 764.89 | J/mol×K | 679.87 | Joback Method |
| cpg | 782.48 | J/mol×K | 706.23 | Joback Method |
| cpg | 799.33 | J/mol×K | 732.59 | Joback Method |
| cpg | 815.46 | J/mol×K | 758.95 | 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=C17678603&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **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 |