# Aniline, 2,4-di-tert-butyl-5-methyl-

**Inchi:** InChI=1S/C15H25N/c1-10-8-13(16)12(15(5,6)7)9-11(10)14(2,3)4/h8-9H,16H2,1-7H3
**InchiKey:** RUGSYDPOZYDHBX-UHFFFAOYSA-N
**Formula:** C15H25N
**SMILES:** Cc1cc(N)c(C(C)(C)C)cc1C(C)(C)C
**Mol. weight [g/mol]:** 219.37

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 231.07 | kJ/mol | Joback Method |
| hf | -134.52 | kJ/mol | Joback Method |
| hfus | 17.85 | kJ/mol | Joback Method |
| hvap | 61.30 | kJ/mol | Joback Method |
| log10ws | -4.21 | | Crippen Method |
| logp | 4.172 | | Crippen Method |
| mcvol | 208.430 | ml/mol | McGowan Method |
| pc | 1928.74 | kPa | Joback Method |
| tb | 650.29 | K | Joback Method |
| tc | 875.75 | K | Joback Method |
| tf | 410.89 | K | Joback Method |
| vc | 0.774 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 569.74 | J/mol×K | 650.29 | Joback Method |
| cpg | 588.57 | J/mol×K | 687.87 | Joback Method |
| cpg | 606.14 | J/mol×K | 725.44 | Joback Method |
| cpg | 622.53 | J/mol×K | 763.02 | Joback Method |
| cpg | 637.84 | J/mol×K | 800.60 | Joback Method |
| cpg | 652.15 | J/mol×K | 838.18 | Joback Method |
| cpg | 665.55 | J/mol×K | 875.75 | 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=B6008496&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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|---|---|
| **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 |