# trans-Decahydroquinoline, 10-methyl

**Inchi:** InChI=1S/C10H19N/c1-10-6-3-2-5-9(10)11-8-4-7-10/h9,11H,2-8H2,1H3/t9-,10+/m0/s1
**InchiKey:** MBQXXEKLNYIWMP-VHSXEESVSA-N
**Formula:** C10H19N
**SMILES:** CC12CCCCC1NCCC2
**Mol. weight [g/mol]:** 153.26

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 188.64 | kJ/mol | Joback Method |
| hf | -75.72 | kJ/mol | Joback Method |
| hfus | 12.82 | kJ/mol | Joback Method |
| hvap | 43.98 | kJ/mol | Joback Method |
| log10ws | -2.86 | | Crippen Method |
| logp | 2.319 | | Crippen Method |
| mcvol | 140.020 | ml/mol | McGowan Method |
| pc | 3272.78 | kPa | Joback Method |
| rinpol | 1220.00 | | NIST Webbook |
| tb | 507.55 | K | Joback Method |
| tc | 745.69 | K | Joback Method |
| tf | 353.19 | K | Joback Method |
| vc | 0.512 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 336.76 | J/mol×K | 507.55 | Joback Method |
| cpg | 358.90 | J/mol×K | 547.24 | Joback Method |
| cpg | 379.44 | J/mol×K | 586.93 | Joback Method |
| cpg | 398.56 | J/mol×K | 626.62 | Joback Method |
| cpg | 416.43 | J/mol×K | 666.31 | Joback Method |
| cpg | 433.21 | J/mol×K | 706.00 | Joback Method |
| cpg | 449.08 | J/mol×K | 745.69 | Joback Method |

# Sources

| | |
|---|---|
| **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 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=R120368&Units=SI |

# 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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |