# tert-butyl-n-propyl-amine

**Inchi:** InChI=1S/C7H17N/c1-5-6-8-7(2,3)4/h8H,5-6H2,1-4H3
**InchiKey:** LJQGARKSJMMQBX-UHFFFAOYSA-N
**Formula:** C7H17N
**SMILES:** CCCNC(C)(C)C
**Mol. weight [g/mol]:** 115.22

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 100.29 | kJ/mol | Joback Method |
| hf | -143.09 | kJ/mol | Joback Method |
| hfus | 11.57 | kJ/mol | Joback Method |
| hvap | 36.32 | kJ/mol | Joback Method |
| log10ws | -2.05 | | Crippen Method |
| logp | 1.785 | | Crippen Method |
| mcvol | 119.470 | ml/mol | McGowan Method |
| pc | 2896.73 | kPa | Joback Method |
| rinpol | 744.00 | | NIST Webbook |
| rinpol | 744.00 | | NIST Webbook |
| tb | 406.50 | K | Joback Method |
| tc | 586.72 | K | Joback Method |
| tf | 223.73 | K | Joback Method |
| vc | 0.452 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 239.82 | J/mol×K | 406.50 | Joback Method |
| cpg | 253.83 | J/mol×K | 436.54 | Joback Method |
| cpg | 267.17 | J/mol×K | 466.57 | Joback Method |
| cpg | 279.85 | J/mol×K | 496.61 | Joback Method |
| cpg | 291.91 | J/mol×K | 526.65 | Joback Method |
| cpg | 303.37 | J/mol×K | 556.69 | Joback Method |
| cpg | 314.25 | J/mol×K | 586.72 | 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=R521914&Units=SI |

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