# Octylamine, N-allyl-

**Inchi:** InChI=1S/C11H23N/c1-3-5-6-7-8-9-11-12-10-4-2/h4,12H,2-3,5-11H2,1H3
**InchiKey:** SHLPFDHXCIUODM-UHFFFAOYSA-N
**Formula:** C11H23N
**SMILES:** C=CCNCCCCCCCC
**Mol. weight [g/mol]:** 169.31

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 218.97 | kJ/mol | Joback Method |
| hf | -91.47 | kJ/mol | Joback Method |
| hfus | 28.07 | kJ/mol | Joback Method |
| hvap | 45.85 | kJ/mol | Joback Method |
| log10ws | -3.47 | | Crippen Method |
| logp | 3.123 | | Crippen Method |
| mcvol | 171.530 | ml/mol | McGowan Method |
| pc | 2030.89 | kPa | Joback Method |
| rinpol | 1306.00 | | NIST Webbook |
| rinpol | 1306.00 | | NIST Webbook |
| tb | 497.93 | K | Joback Method |
| tc | 666.24 | K | Joback Method |
| tf | 264.63 | K | Joback Method |
| vc | 0.667 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 396.94 | J/mol×K | 497.93 | Joback Method |
| cpg | 412.64 | J/mol×K | 525.98 | Joback Method |
| cpg | 427.68 | J/mol×K | 554.03 | Joback Method |
| cpg | 442.10 | J/mol×K | 582.08 | Joback Method |
| cpg | 455.90 | J/mol×K | 610.14 | Joback Method |
| cpg | 469.12 | J/mol×K | 638.19 | Joback Method |
| cpg | 481.76 | J/mol×K | 666.24 | Joback Method |

# Sources

| | |
|---|---|
| **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=U416163&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# 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 |