# 1-Undecyn-4-ol

**Inchi:** InChI=1S/C11H20O/c1-3-5-6-7-8-10-11(12)9-4-2/h2,11-12H,3,5-10H2,1H3
**InchiKey:** IBEKWLNDNQDLQS-UHFFFAOYSA-N
**Formula:** C11H20O
**SMILES:** C#CCC(O)CCCCCCC
**Mol. weight [g/mol]:** 168.28
**CAS:** 22127-86-2

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | 125.55 | kJ/mol | Joback Method |
| hf | -135.98 | kJ/mol | Joback Method |
| hfus | 27.79 | kJ/mol | Joback Method |
| hvap | 56.23 | kJ/mol | Joback Method |
| log10ws | -3.60 | | Crippen Method |
| logp | 2.731 | | Crippen Method |
| mcvol | 163.120 | ml/mol | McGowan Method |
| pc | 2436.25 | kPa | Joback Method |
| rinpol | 1107.00 | | NIST Webbook |
| rinpol | 1107.00 | | NIST Webbook |
| tb | 532.94 | K | Joback Method |
| tc | 702.37 | K | Joback Method |
| tf | 306.52 | K | Joback Method |
| vc | 0.626 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 391.18 | J/mol×K | 532.94 | Joback Method |
| cpg | 404.34 | J/mol×K | 561.18 | Joback Method |
| cpg | 416.94 | J/mol×K | 589.42 | Joback Method |
| cpg | 428.99 | J/mol×K | 617.66 | Joback Method |
| cpg | 440.51 | J/mol×K | 645.89 | Joback Method |
| cpg | 451.52 | J/mol×K | 674.13 | Joback Method |
| cpg | 462.05 | J/mol×K | 702.37 | 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=C22127862&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 |
| **rinpol:** | Non-polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |