# N-Isopentylformamide

**Inchi:** InChI=1S/C6H13NO/c1-6(2)3-4-7-5-8/h5-6H,3-4H2,1-2H3,(H,7,8)
**InchiKey:** WRWGCPXFAJKWDW-UHFFFAOYSA-N
**Formula:** C6H13NO
**SMILES:** CC(C)CCNC=O
**Mol. weight [g/mol]:** 115.17

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -12.93 | kJ/mol | Joback Method |
| hf | -204.56 | kJ/mol | Joback Method |
| hfus | 15.16 | kJ/mol | Joback Method |
| hvap | 41.72 | kJ/mol | Joback Method |
| log10ws | -1.06 | | Crippen Method |
| logp | 0.778 | | Crippen Method |
| mcvol | 106.950 | ml/mol | McGowan Method |
| pc | 3464.28 | kPa | Joback Method |
| rinpol | 1112.00 | | NIST Webbook |
| rinpol | 1112.00 | | NIST Webbook |
| tb | 435.07 | K | Joback Method |
| tc | 616.14 | K | Joback Method |
| tf | 237.04 | K | Joback Method |
| vc | 0.417 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 220.08 | J/mol×K | 435.07 | Joback Method |
| cpg | 230.91 | J/mol×K | 465.25 | Joback Method |
| cpg | 241.29 | J/mol×K | 495.43 | Joback Method |
| cpg | 251.22 | J/mol×K | 525.61 | Joback Method |
| cpg | 260.71 | J/mol×K | 555.79 | Joback Method |
| cpg | 269.78 | J/mol×K | 585.97 | Joback Method |
| cpg | 278.43 | J/mol×K | 616.14 | 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=R508931&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 |