# N-Isobutylformamide

**Other names:** Formamide, N-isobutyl-
**Inchi:** InChI=1S/C5H11NO/c1-5(2)3-6-4-7/h4-5H,3H2,1-2H3,(H,6,7)
**InchiKey:** XCTTVNSXEHWZBI-UHFFFAOYSA-N
**Formula:** C5H11NO
**SMILES:** CC(C)CN=CO
**Mol. weight [g/mol]:** 101.15
**CAS:** 6281-96-5

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hf | -221.82 | kJ/mol | Joback Method |
| hvap | 46.33 | kJ/mol | Joback Method |
| log10ws | -0.66 | | Crippen Method |
| logp | 1.229 | | Crippen Method |
| mcvol | 92.860 | ml/mol | McGowan Method |
| pc | 3448.03 | kPa | Joback Method |
| rinpol | 1014.00 | | NIST Webbook |
| rinpol | 1014.00 | | NIST Webbook |
| ripol | 1759.00 | | NIST Webbook |
| ripol | 1759.00 | | NIST Webbook |
| tb | 482.22 | K | Joback Method |
| tc | 667.10 | K | Joback Method |

## Sources

**McGowan Method:** http://link.springer.com/article/10.1007/BF02311772
**NIST Webbook:** http://webbook.nist.gov/cgi/cbook.cgi?ID=C6281965&Units=SI
**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

# Legend

| | |
|---|---|
| **hf:** | Enthalpy of formation 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 |
| **ripol:** | Polar retention indices |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |