# CF2HCON(CH3)2

**Inchi:** InChI=1S/C4H7F2NO/c1-7(2)4(8)3(5)6/h3H,1-2H3
**InchiKey:** IUEWOPMXNADAEB-UHFFFAOYSA-N
**Formula:** C4H7F2NO
**SMILES:** CN(C)C(=O)C(F)F
**Mol. weight [g/mol]:** 123.10
**CAS:** 667-50-5

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| affp | 864.10 | kJ/mol | NIST Webbook |
| basg | 833.10 | kJ/mol | NIST Webbook |
| gf | -427.40 | kJ/mol | Joback Method |
| hf | -568.44 | kJ/mol | Joback Method |
| hfus | 13.37 | kJ/mol | Joback Method |
| hvap | 31.27 | kJ/mol | Joback Method |
| log10ws | -0.16 | | Crippen Method |
| logp | 0.340 | | Crippen Method |
| mcvol | 82.310 | ml/mol | McGowan Method |
| pc | 3796.32 | kPa | Joback Method |
| tb | 355.33 | K | Joback Method |
| tc | 517.50 | K | Joback Method |
| tf | 203.42 | K | Joback Method |
| vc | 0.314 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 149.88 | J/mol×K | 355.33 | Joback Method |
| cpg | 158.03 | J/mol×K | 382.36 | Joback Method |
| cpg | 165.82 | J/mol×K | 409.39 | Joback Method |
| cpg | 173.28 | J/mol×K | 436.41 | Joback Method |
| cpg | 180.41 | J/mol×K | 463.44 | Joback Method |
| cpg | 187.22 | J/mol×K | 490.47 | Joback Method |
| cpg | 193.72 | J/mol×K | 517.50 | Joback Method |

# Sources

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|---|---|
| **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=C667505&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

| | |
|---|---|
| **affp:** | Proton affinity |
| **basg:** | Gas basicity |
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |