

3(2H)-Furanone

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| Inchi: | InChI=1S/C4H4O2/c5-4-1-2-6-3-4/h1-2H,3H2 |
| InchiKey: | LYINKTVZUSKQEQ-UHFFFAOYSA-N |
| Formula: | C4H4O2 |
| SMILES: | O=C1C=COC1 |
| Mol. weight [g/mol]: | 84.07 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -151.69 | kJ/mol | Joback Method |
| hf | -256.99 | kJ/mol | Joback Method |
| hfus | 7.69 | kJ/mol | Joback Method |
| hvap | 34.11 | kJ/mol | Joback Method |
| log10ws | -0.11 | | Crippen Method |
| logp | 0.099 | | Crippen Method |
| mcvol | 59.500 | ml/mol | McGowan Method |
| pc | 5678.82 | kPa | Joback Method |
| ripol | 1449.00 | | NIST Webbook |
| ripol | 1449.00 | | NIST Webbook |
| tb | 404.80 | K | Joback Method |
| tc | 630.37 | K | Joback Method |
| tf | 245.53 | K | Joback Method |
| vc | 0.215 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 103.50 | J/mol×K | 404.80 | Joback Method |
| cpg | 111.68 | J/mol×K | 442.39 | Joback Method |
| cpg | 119.51 | J/mol×K | 479.99 | Joback Method |
| cpg | 126.99 | J/mol×K | 517.58 | Joback Method |
| cpg | 134.12 | J/mol×K | 555.18 | Joback Method |
| cpg | 140.88 | J/mol×K | 592.77 | Joback Method |
| cpg | 147.27 | J/mol×K | 630.37 | Joback Method |

Sources

| | |
|------------------------|---|
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |
| 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=R76171&Units=SI |

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 |
| hvp: | 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 |
| ripol: | Polar retention indices |
| tb: | Normal Boiling Point Temperature |
| tc: | Critical Temperature |
| tf: | Normal melting (fusion) point |
| vc: | Critical Volume |

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