

2-Hydroxy-4-methyl-2-cyclopenten-1-one

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| Other names: | 2-Cyclopenten-1-one, 2-hydroxy-4-methyl |
| Inchi: | InChI=1S/C6H8O2/c1-4-2-5(7)6(8)3-4/h2,4,7H,3H2,1H3 |
| InchiKey: | SFSXQNIOJABGSJ-UHFFFAOYSA-N |
| Formula: | C6H8O2 |
| SMILES: | CC1C=C(O)C(=O)C1 |
| Mol. weight [g/mol]: | 112.13 |
| CAS: | 15899-72-6 |

Physical Properties

| Property code | Value | Unit | Source |
|---------------|---------|----------------------|----------------|
| gf | -202.89 | kJ/mol | Joback Method |
| hf | -350.31 | kJ/mol | Joback Method |
| hfus | 9.66 | kJ/mol | Joback Method |
| hvap | 51.09 | kJ/mol | Joback Method |
| log10ws | -0.94 | | Crippen Method |
| logp | 1.037 | | Crippen Method |
| mcvol | 87.680 | ml/mol | McGowan Method |
| pc | 4652.99 | kPa | Joback Method |
| rinpola | 948.00 | | NIST Webbook |
| rinpola | 948.00 | | NIST Webbook |
| ripola | 1688.00 | | NIST Webbook |
| ripola | 1688.00 | | NIST Webbook |
| tb | 516.10 | K | Joback Method |
| tc | 723.20 | K | Joback Method |
| tf | 310.60 | K | Joback Method |
| vc | 0.325 | m ³ /kmol | Joback Method |

Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---------------|--------|---------|-----------------|---------------|
| cpg | 196.23 | J/molxK | 516.10 | Joback Method |
| cpg | 206.21 | J/molxK | 550.62 | Joback Method |
| cpg | 215.78 | J/molxK | 585.13 | Joback Method |
| cpg | 224.91 | J/molxK | 619.65 | Joback Method |

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|-----|--------|---------|--------|---------------|
| cpg | 233.62 | J/mol×K | 654.16 | Joback Method |
| cpg | 241.89 | J/mol×K | 688.68 | Joback Method |
| cpg | 249.71 | J/mol×K | 723.20 | 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=C15899726&Units=SI |
| Crippen Method: | http://pubs.acs.org/doi/abs/10.1021/ci9903071 |

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

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