# 5-Ethyl-2-hydroxy-3-methyl-2-cyclopenten-1-one

**Other names:** 5-Ethyl-2-hydroxy-3-methyl-2-cyclopenten-1-one
2-Cyclopenten-1-one, 5-ethyl-2-hydroxy-3-methyl
5-ethyl-2-hydroxy-3-methylcyclopent-2-en-1-one
**Inchi:** InChI=1S/C8H12O2/c1-3-6-4-5(2)7(9)8(6)10/h6,9H,3-4H2,1-2H3
**InchiKey:** ARHWUYVUNJLMRR-UHFFFAOYSA-N
**Formula:** C8H12O2
**SMILES:** CCC1CC(C)=C(O)C1=O
**Mol. weight [g/mol]:** 140.18

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hfus | 14.45 | kJ/mol | Joback Method |
| logp | 1.817 | | Crippen Method |
| mcvol | 115.860 | ml/mol | McGowan Method |
| rinpol | 1135.00 | | NIST Webbook |
| ripol | 1799.00 | | NIST Webbook |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 283.61 | J/mol×K | 566.84 | Joback Method |
| cpg | 295.46 | J/mol×K | 600.51 | Joback Method |
| cpg | 306.81 | J/mol×K | 634.19 | Joback Method |
| cpg | 317.65 | J/mol×K | 667.86 | Joback Method |
| cpg | 327.96 | J/mol×K | 701.53 | Joback Method |
| cpg | 337.75 | J/mol×K | 735.21 | Joback Method |
| cpg | 347.01 | J/mol×K | 768.88 | Joback Method |

## Sources

**Joback Method:** https://en.wikipedia.org/wiki/Joback_method

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|---|---|
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **Cheméo Relay (1.0):** | |
| **Cheméo Relay (1.0, beta):** | |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C53263584&Units=SI |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **rinpol:** | Non-polar retention indices |
| **ripol:** | Polar retention indices |