# 4-ACETOXY-2-AZETIDINONE

**Other names:** 2-Azetidinone, 4-(acetyloxy)-
2-oxoazetidinium 4-acetate
**Inchi:** InChI=1S/C5H7NO3/c1-3(7)9-5-2-4(8)6-5/h5H,2H2,1H3,(H,6,8)
**InchiKey:** OEYMQQDJCUHKQS-UHFFFAOYSA-N
**Formula:** C5H7NO3
**SMILES:** CC(=O)OC1CC(=O)N1
**Mol. weight [g/mol]:** 129.11

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| hfus | 16.63 | kJ/mol | Joback Method |
| logp | -0.605 | | Crippen Method |
| mcvol | 89.440 | ml/mol | McGowan Method |
| tb | 354.20 | K | NIST Webbook |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 199.41 | J/mol×K | 517.47 | Joback Method |
| cpg | 210.07 | J/mol×K | 555.44 | Joback Method |
| cpg | 220.33 | J/mol×K | 593.42 | Joback Method |
| cpg | 230.16 | J/mol×K | 631.39 | Joback Method |
| cpg | 239.51 | J/mol×K | 669.36 | Joback Method |
| cpg | 248.37 | J/mol×K | 707.33 | Joback Method |
| cpg | 256.70 | J/mol×K | 745.31 | Joback Method |

## Sources

**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=C28562530&Units=SI |
| **Joback Method:** | https://en.wikipedia.org/wiki/Joback_method |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |

# Legend

| | |
|---|---|
| **cpg:** | Ideal gas heat capacity |
| **hfus:** | Enthalpy of fusion at standard conditions |
| **logp:** | Octanol/Water partition coefficient |
| **mcvol:** | McGowan's characteristic volume |
| **tb:** | Normal Boiling Point Temperature |

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