# 1-Methoxycarbonylmethyl-cyclopropane-1,2-dicar
# acid dimethyl ester

**Inchi:** InChI=1S/C10H14O6/c1-14-7(11)5-10(9(13)16-3)4-6(10)8(12)15-2/h6H,4-5H2,1-3H3
**InchiKey:** VGEPYQNFCFTQQQ-UHFFFAOYSA-N
**Formula:** C10H14O6
**SMILES:** COC(=O)CC1(C(=O)OC)CC1C(=O)OC
**Mol. weight [g/mol]:** 230.21

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| gf | -620.89 | kJ/mol | Joback Method |
| hf | -916.43 | kJ/mol | Joback Method |
| hfus | 22.93 | kJ/mol | Joback Method |
| hvap | 63.78 | kJ/mol | Joback Method |
| log10ws | -7.47e-03 | | Crippen Method |
| logp | -0.098 | | Crippen Method |
| mcvol | 163.220 | ml/mol | McGowan Method |
| pc | 2775.92 | kPa | Joback Method |
| rinpol | 1428.00 | | NIST Webbook |
| tb | 659.38 | K | Joback Method |
| tc | 863.43 | K | Joback Method |
| tf | 456.54 | K | Joback Method |
| vc | 0.622 | m3/kmol | Joback Method |

## Temperature Dependent Properties

| Property code | Value | Unit | Temperature [K] | Source |
|---|---|---|---|---|
| cpg | 442.73 | J/mol×K | 659.38 | Joback Method |
| cpg | 455.23 | J/mol×K | 693.39 | Joback Method |
| cpg | 467.18 | J/mol×K | 727.40 | Joback Method |
| cpg | 478.67 | J/mol×K | 761.40 | Joback Method |
| cpg | 489.74 | J/mol×K | 795.41 | Joback Method |
| cpg | 500.47 | J/mol×K | 829.42 | Joback Method |
| cpg | 510.93 | J/mol×K | 863.43 | 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=R249122&Units=SI |
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |

# Legend

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|---|---|
| **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 |
| **tb:** | Normal Boiling Point Temperature |
| **tc:** | Critical Temperature |
| **tf:** | Normal melting (fusion) point |
| **vc:** | Critical Volume |