# 1,3-Dimethyl-2,4,5-trioxoimidazolidine

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|---|---|
| **Other names:** | Imidazolidinetrione, dimethyl- |
| | Dimethylparabanic acid |
| | N,N'-Dimethylparabanic acid |
| | 1,3-Dimethylparabanic acid |
| | N,N'-Dimethylimidazoline-trione |
| **Inchi:** | InChI=1S/C5H6N2O3/c1-6-3(8)4(9)7(2)5(6)10/h1-2H3 |
| **InchiKey:** | UJYBVDOLXHCNOL-UHFFFAOYSA-N |
| **Formula:** | C5H6N2O3 |
| **SMILES:** | CN1C(=O)C(=O)N(C)C1=O |
| **Mol. weight [g/mol]:** | 142.11 |
| **CAS:** | 5176-82-9 |

## Physical Properties

| Property code | Value | Unit | Source |
|---|---|---|---|
| ie | 10.19 | eV | NIST Webbook |
| ie | 10.19 | eV | NIST Webbook |
| log10ws | 0.75 | | Crippen Method |
| logp | -0.963 | | Crippen Method |
| mcvol | 95.120 | ml/mol | McGowan Method |

## Sources

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|---|---|
| **Crippen Method:** | http://pubs.acs.org/doi/abs/10.1021/ci990307l |
| **Crippen Method:** | https://www.chemeo.com/doc/models/crippen_log10ws |
| **McGowan Method:** | http://link.springer.com/article/10.1007/BF02311772 |
| **NIST Webbook:** | http://webbook.nist.gov/cgi/cbook.cgi?ID=C5176829&Units=SI |

## Legend

| | |
|---|---|
| **ie:** | Ionization energy |
| **log10ws:** | Log10 of Water solubility in mol/l |

**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume