

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

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

## Physical Properties

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

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C5176829&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C5176829&amp;Units=SI</a>

## Legend

<b>ie:</b>	Ionization energy
<b>log10ws:</b>	Log10 of Water solubility in mol/l

**logp:** Octanol/Water partition coefficient

**mcvol:** McGowan's characteristic volume

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