

# 3-Nitroso-2-imidazolidone-1-(n-methylcarboxamide)

**Inchi:** InChI=1S/C5H8N4O3/c1-6-4(10)8-2-3-9(7-12)5(8)11/h2-3H2,1H3,(H,6,10)  
**InchiKey:** TUDNLYBYRMSGTF-UHFFFAOYSA-N  
**Formula:** C5H8N4O3  
**SMILES:** CNC(=O)N1CCN(N=O)C1=O  
**Mol. weight [g/mol]:** 172.14  
**CAS:** 16872-50-7

## Physical Properties

Property code	Value	Unit	Source
log10ws	-0.83		Crippen Method
logp	-0.255		Crippen Method
mcvol	115.080	ml/mol	McGowan Method

## Sources

**NIST Webbook:** <http://webbook.nist.gov/cgi/cbook.cgi?ID=C16872507&Units=SI>  
**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>  
**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)  
**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

## Legend

**log10ws:** Log10 of Water solubility in mol/l  
**logp:** Octanol/Water partition coefficient  
**mcvol:** McGowan's characteristic volume

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