

# Cyclopentane-1,2-dione, 3,3,5,5-tetramethyl, bis(o-methyloxime)-(Z,Z)-

**Inchi:** InChI=1S/C11H20N2O2/c1-10(2)7-11(3,4)9(13-15-6)8(10)12-14-5/h7H2,1-6H3/b12-8+,1  
**InchiKey:** RECQGPOZJVAMAO-QHKWOANTSA-N  
**Formula:** C11H20N2O2  
**SMILES:** CON=C1C(=NOC)C(C)(C)CC1(C)C  
**Mol. weight [g/mol]:** 212.29  
**CAS:** 140401-51-0

## Physical Properties

Property code	Value	Unit	Source
hf	-382.13	kJ/mol	Joback Method
hvap	50.83	kJ/mol	Joback Method
ie	7.80	eV	NIST Webbook
ie	8.80	eV	NIST Webbook
log10ws	-2.32		Crippen Method
logp	2.447		Crippen Method
mcvol	178.090	ml/mol	McGowan Method
pc	1846.75	kPa	Joback Method
tb	665.33	K	Joback Method
tc	891.99	K	Joback Method

## Sources

**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)  
**Joback Method:** [https://en.wikipedia.org/wiki/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=C140401510&Units=SI>

## Legend

hf: Enthalpy of formation at standard conditions

<b>h<sub>vap</sub>:</b>	Enthalpy of vaporization at standard conditions
<b>ie:</b>	Ionization energy
<b>log<sub>10</sub>w<sub>s</sub>:</b>	Log <sub>10</sub> of Water solubility in mol/l
<b>log<sub>p</sub>:</b>	Octanol/Water partition coefficient
<b>mc<sub>vol</sub>:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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