

# 1,2-dimethyl-3-hydroxypyridin-4-one

<b>Other names:</b>	3-hydroxy-1,2-dimethylpyridin-4(1H)-one deferiprone
<b>Inchi:</b>	InChI=1S/C7H9NO2/c1-5-7(10)6(9)3-4-8(5)2/h3-4,10H,1-2H3
<b>InchiKey:</b>	TZXKOCQBRNJULO-UHFFFAOYSA-N
<b>Formula:</b>	C7H9NO2
<b>SMILES:</b>	Cc1c(O)c(=O)ccn1C
<b>Mol. weight [g/mol]:</b>	139.15

## Physical Properties

Property code	Value	Unit	Source
hfus	32.10	kJ/mol	Thermodynamic Modeling and Solubility Measurement of Cetirizine Hydrochloride and Deferiprone in Pure Solvents of Acetonitrile, Ethanol, Acetic Acid, Sulfolane, and Ethyl Acetate and Their Mixtures
log10ws	-2.21		Crippen Method
logp	0.399		Crippen Method
mcvol	107.450	ml/mol	McGowan Method
tt	554.05	K	Thermodynamic Modeling and Solubility Measurement of Cetirizine Hydrochloride and Deferiprone in Pure Solvents of Acetonitrile, Ethanol, Acetic Acid, Sulfolane, and Ethyl Acetate and Their Mixtures

## Sources

**Crippen Method:** [https://www.chemeo.com/doc/models/crippen\\_log10ws](https://www.chemeo.com/doc/models/crippen_log10ws)

**Thermodynamic Modeling and Solubility Measurement of Cetirizine Hydrochloride and Deferiprone in Pure Solvents of Acetonitrile, Ethanol, Acetic Acid, Sulfolane, and Ethyl Acetate and Their Mixtures:** <https://www.doi.org/10.1021/acs.jced.9b00620>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

# Legend

<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>tt:</b>	Triple Point Temperature

Latest version available from:

<https://www.cheméo.com/cid/108-440-3/1-2-dimethyl-3-hydroxypyridin-4-one.pdf>

Generated by Cheméo on 2024-04-29 04:22:55.369555103 +0000 UTC m=+16653824.290132415.

Cheméo (<https://www.cheméo.com>) is the biggest free database of chemical and physical data for the process industry.