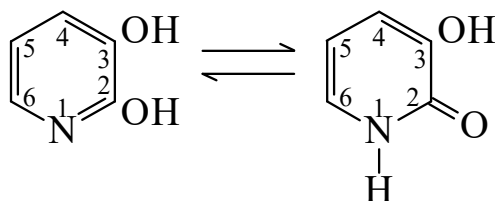




>>Entry Name: **2,3-Pyridinediol**

Synonym(s): 3-Hydroxy-2(1*H*)-pyridinone, 9Cl. 2,3-Dihydroxypyridine



CAS Registry Number: 16867-04-2

Molecular Formula: C<sub>5</sub>H<sub>5</sub>NO<sub>2</sub>

Molecular Weight: 111.1

Accurate Mass: 111.032029

Percentage Composition: C 54.05%; H 4.54%; N 12.61%; O 28.80%

Use/Importance: Used as a 0.5%-1.0% soln. in EtOH or H<sub>2</sub>O for photometric detn. of Os, Fe; metallochromic indicator for titrimetric detn. of Fe(*III*)

Physical Description: Prisms (H<sub>2</sub>O)

Melting Point: Mp 248°

pKa Value: p*K*<sub>a1</sub> 0.22; p*K*<sub>a2</sub> 9 (20°)

Aldrich: 12250-5

Fluka: 37940

>>Derivative: *N*-Oxide

Synonym(s): 1,3-Dihydroxy-2(1*H*)-pyridinone

CAS Registry Number: 19365-06-1

Molecular Formula: C<sub>5</sub>H<sub>5</sub>NO<sub>3</sub>

Molecular Weight: 127.099

Accurate Mass: 127.026944

Percentage Composition: C 47.25%; H 3.97%; N 11.02%; O 37.76%

Physical Description: Cryst. (1-butanol)

Melting Point: Mp 188-190° (182-184°)

Other Data: Exists in soln. as the *N*-hydroxypyridinone tautomer

>>Derivative: 3-Ac

CAS Registry Number: 61296-14-8

Molecular Formula: C<sub>7</sub>H<sub>7</sub>NO<sub>3</sub>

Molecular Weight: 153.137

Accurate Mass: 153.042594

Percentage Composition: C 54.90%; H 4.61%; N 9.15%; O 31.34%

Melting Point: Mp 155°

Aldrich: 13084-2

>>Derivative: 3-Benzoyl

CAS Registry Number: 71847-96-6

Molecular Formula: C<sub>12</sub>H<sub>9</sub>NO<sub>3</sub>

Molecular Weight: 215.208

Accurate Mass: 215.058244

Percentage Composition: C 66.97%; H 4.22%; N 6.51%; O 22.30%

Physical Description: Cryst. (EtOAc)

Melting Point: Mp 174-176°

>>Derivative: 3-Me ether

Synonym(s): 3-Methoxy-2(1*H*)-pyridinone. 3-Methoxy-2-pyridinol. 2-Hydroxy-3-methoxypyridine

CAS Registry Number: 20928-63-6

Molecular Formula: C<sub>6</sub>H<sub>7</sub>NO<sub>2</sub>

Molecular Weight: 125.127

Accurate Mass: 125.047679

Percentage Composition: C 57.59%; H 5.64%; N 11.19%; O 25.57%

Physical Description: Leaflets (CHCl<sub>3</sub>)

Melting Point: Mp 114-116°

Aldrich: 14565-3