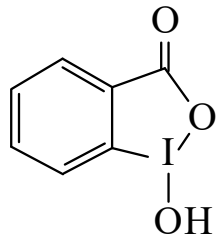
>>**Entry Name: 1-Hydroxy-1,2-benziodoxol-3(1*H*)-one,** 9CI, 8CI
Synonym(s): 1,3-Dihydro-1-hydroxy-3-oxo-1,2-benziodoxole. 3-Oxo-3*H*-1,2-benziodoxol-1-ium hydroxide



CAS Registry Number: 131-62-4

Molecular Formula: $C_7H_5IO_3$
Molecular Weight: 264.019
Accurate Mass: 263.928343
Percentage Composition: C 31.85%; H 1.91%; I 48.07%; O 18.18%

Use/Importance: Enzyme inhibitor. Reagent for determination of xanthates. Catalyst for cleavage of reactive phosphates in cationic surfactant soln.
Physical Description: Cryst. (H_2O)
Melting Point: Mp 231-232 dec.°
pKa Value: pK_a 6.22
Hazard & Toxicity: LD_{50} (mus, ipr) 175 mg/kg

>>**Derivative:** Ac

Molecular Formula: $C_9H_7IO_4$
Molecular Weight: 306.056
Accurate Mass: 305.938908
Percentage Composition: C 35.32%; H 2.31%; I 41.46%; O 20.91%
Physical Description: Cryst. (Ac_2O)
Melting Point: Mp 167-169°

>>**Derivative:** Me ether
Synonym(s): 1-Methoxy-1,2-benziodoxol-3(1*H*)-one

Molecular Formula: $C_8H_7IO_3$
Molecular Weight: 278.046
Accurate Mass: 277.943993
Percentage Composition: C 34.56%; H 2.54%; I 45.64%; O 17.26%
Physical Description: Cryst. (MeOH)
Melting Point: Mp 166-168 and ca. 190°° (double Mp)

>>**Derivative:** 1-Oxide

CAS Registry Number: 61717-82-6
Molecular Formula: $C_7H_5IO_4$
Molecular Weight: 280.019
Accurate Mass: 279.923258
Percentage Composition: C 30.03%; H 1.80%; I 45.32%; O 22.85%
Physical Description: Solid
Melting Point: Mp 232-233 dec.°
Solubility: Insol. common org. solvs.
Hazard & Toxicity: Explosive

>>**Derivative:** *O*-Methanesulfonyl

Molecular Formula: $C_8H_7IO_5S$
Molecular Weight: 342.111
Accurate Mass: 341.905893
Percentage Composition: C 28.09%; H 2.06%; I 37.09%; O 23.38%; S 9.37%
Physical Description: Cryst.
Melting Point: Mp 174-176°
Other Data: Hygroscopic, forms pentahydrate in air