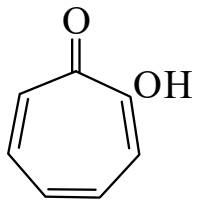
>>**Entry Name: Tropolone,** 8CI
Synonym(s): 2-Hydroxy-2,4,6-cycloheptatrien-1-one, 9CI



CAS Registry Number: 533-75-5

Molecular Formula: $C_7H_6O_2$
Molecular Weight: 122.123
Accurate Mass: 122.03678
Percentage Composition: C 68.85%; H 4.95%; O 26.20%
Biological Source: Isol. from *Pseudomonas plantari*
Use/Importance: Used as 0.01*M* aq. soln. for photometric detn. of Ru(*III*) (λ_{max} 415 nm, ε 18700), Rh(*III*), Cr(*III*)
Physical Description: Needles (hexane or petrol)
Melting Point: Mp 49-50°
Solubility: Sol. H_2O; v. sol. org. solvs. except hydrocarbons
pKa Value: pK_{a1} –0.53; pK_{a2} 6.67 (25°,OH, 0.5*M* NaCl)
Other Data: Amphoteric. Forms a yellow anion in alkaline soln.. Sol. unchanged in conc. HCl
Hazard & Toxicity: LD_{50} (rat, ipr) 190 mg/kg

Aldrich: T8970-2
Fluka: 93555
Rare Chemicals Library: S3667-7
Sigma: T7387

>>**Derivative:** Hydrochloride

Physical Description: Clusters of needles (HCl/MeOH)
Melting Point: Mp 131-132° (gas evolution, softens at 114-115°)
Other Data: Dec. slowly at r.t.

>>**Derivative:** Picrate

Physical Description: Yellow needles (EtOH)
Melting Point: Mp 119-120° (83.5-84°)

>>**Derivative:** Ac
Synonym(s): 2-(Acetyloxy)-2,4,6-cycloheptatrien-1-one, 9CI

CAS Registry Number: 33739-54-7
Molecular Formula: $C_9H_8O_3$
Molecular Weight: 164.16
Accurate Mass: 164.047345
Percentage Composition: C 65.85%; H 4.91%; O 29.24%
Physical Description: Cryst. (cyclohexane)
Melting Point: Mp 80° (67°)

>>**Derivative:** Benzoyl
Synonym(s): 2-Benzoyloxy-2,4,6-cycloheptatrien-1-one, 9CI

CAS Registry Number: 58244-35-2
Molecular Formula: $C_{14}H_{10}O_3$
Molecular Weight: 226.231
Accurate Mass: 226.062995
Percentage Composition: C 74.33%; H 4.46%; O 21.22%
Physical Description: Cryst. (EtOH)
Melting Point: Mp 129-130°