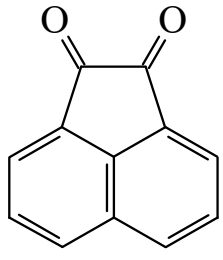
>>**Entry Name: Acenaphthenequinone**
Synonym(s): 1,2-Acenaphthylenedione, 9CI. 1,2-Dioxoacenaphthene



CAS Registry Number: 82-86-0

Molecular Formula: $C_{12}H_6O_2$
Molecular Weight: 182.178
Accurate Mass: 182.03678
Percentage Composition: C 79.12%; H 3.32%; O 17.56%
Use/Importance: Has bactericidal and fungicidal props.
Physical Description: Yellow needles (AcOH)
Melting Point: Mp 243-245°. Mp 261°

Aldrich: A20-1
Fluka: 40

>>**Derivative:** Monohydrazone

Physical Description: Yellow prisms
Melting Point: Mp 241°

>>**Derivative:** Monophenylhydrazone

Physical Description: Orange needles (EtOH)
Melting Point: Mp 179°

>>**Derivative:** Bisphenylhydrazone

Physical Description: Yellow needles (AcOH)
Melting Point: Mp 219°

>>**Derivative:** Monothiosemicarbazone
Synonym(s): 2-(2-Oxo-1(2*H*)-acenaphthylenylidene)hydrazinecarbothioamide, 9CI

CAS Registry Number: 95264-76-9

Molecular Formula: $C_{13}H_9N_3OS$
Molecular Weight: 255.3
Accurate Mass: 255.046632
Percentage Composition: C 61.16%; H 3.55%; N 16.46%; O 6.27%; S 12.56%
Use/Importance: Used as 3m*M* soln. in DMF for photometric detn. of Ru (λ_{max} 655 nm, ε 9800) and Pt (λ_{max} 515 nm, ε 12000), Os (λ_{max} 525 nm, ε 15000) and Ir (λ_{max} 520 nm, ε 4900)
Physical Description: Cryst. (EtOH)
Solubility: Sol. DMF, EtOH

>>**Derivative:** Monoxime

CAS Registry Number: 33489-49-5

Molecular Formula: $C_{12}H_7NO_2$
Molecular Weight: 197.193
Accurate Mass: 197.047679
Percentage Composition: C 73.09%; H 3.58%; N 7.10%; O 16.23%
Use/Importance: Used as 0.1*M* soln. in EtOH for photometric detn. of Ru, Pt, Os, Rh
Physical Description: Prisms (EtOH), yellow cryst. (AcOH)
Melting Point: Mp 230 dec.° (prisms), Mp 207° dec. (cryst.)
Solubility: Sol. EtOH, AcOH; spar. sol. H_2O