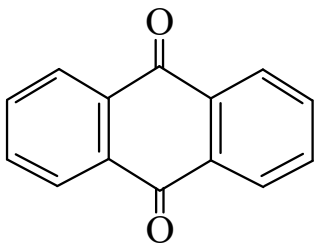
>>**Entry Name: 9,10-Anthraquinone,** 8CI
Synonym(s): 9,10-Anthracenedione, 9CI. 9,10-Dihydro-9,10-dioxoanthracene. Anthraquinone, BSI, ISO. Morkit



CAS Registry Number: 84-65-1
Related CAS Registry Numbers(s): 3426-73-1

Molecular Formula: $C_{14}H_8O_2$
Molecular Weight: 208.216
Accurate Mass: 208.05243
Percentage Composition: C 80.76%; H 3.87%; O 15.37%
Biological Source: Isol. from the cuticular wax of *Lolium perenne* and from essential oil of *Nicotiana tabacum*. Also reported as a prob. artifact from other natural sources
Use/Importance: Intermed. for the manuf. of dyes. Bird repellent. Forms semiconducting copolymers with aromatic diimines and with aromatic anhydrides
Physical Description: Yellow rhombic cryst. ($PhNO_2$ or AcOH)
Melting Point: Mp 286°
Boiling Point: Bp 380°
Solubility: Sol. hot C_6H_6, toluene, $PhNO_2$; mod.; sol. EtOH; spar. sol. Et_2O; insol. H_2O
pKa Value: pK_a –8.18 (22°, H_2SO_4 aq.)
Other Data: Sublimes. Triboluminescent
Hazard & Toxicity: Fl. p. 185°. Irritant, poss. skin allergen. LD_{50} (rat, orl) 3500 mg/kg

Aldrich: A9000-4
Fluka: 10610
Rare Chemicals Library: S5907-3

>>**Derivative:** Monohydrazone

CAS Registry Number: 3166-13-0
Molecular Formula: $C_{14}H_{10}N_2O$
Molecular Weight: 222.246
Accurate Mass: 222.079313
Percentage Composition: C 75.66%; H 4.54%; N 12.60%; O 7.20%
Physical Description: Brown-orange needles (EtOH)
Melting Point: Mp 175-176°

>>**Derivative:** Monoxime

CAS Registry Number: 14090-75-6
Molecular Formula: $C_{14}H_9NO_2$
Molecular Weight: 223.231
Accurate Mass: 223.063329
Percentage Composition: C 75.33%; H 4.06%; N 6.27%; O 14.33%
Physical Description: Pale yellow needles
Melting Point: Mp 224° (rapid heat)

>>**Derivative:** Dioxime

CAS Registry Number: 7461-27-0
Molecular Formula: $C_{14}H_{10}N_2O_2$
Molecular Weight: 238.245
Accurate Mass: 238.074228
Percentage Composition: C 70.58%; H 4.23%; N 11.76%; O 13.43%
Physical Description: Cryst. (EtOAc)
Melting Point: Mp 254-256 dec.°

References: