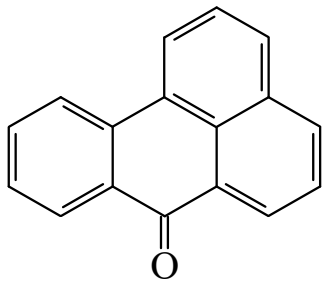
>>**Entry Name: 7*H*-Benz[*de*]anthracen-7-one**
**Synonym(s):** Benzanthrone. Mesobenzanthrone




**CAS Registry Number:** 82-05-3

**Molecular Formula:** $C_{17}H_{10}O$
**Molecular Weight:** 230.265
**Accurate Mass:** 230.073165
**Percentage Composition:** C 88.67%; H 4.38%; O 6.95%
**Physical Description:** Yellow needles (xylene or EtOH)
**pKa Value:** p$K_a$ –3.2 ($H_2SO_4$ aq.)
**Other Data:** Orange-red soln. with olive-green fluor. in $H_2SO_4$
**Hazard & Toxicity:** Eye and skin irritant. $LD_{50}$ (rat, ipr) 1500 mg/kg
**Aldrich:** B260-8
**Rare Chemicals Library:** S26549-7

>>**Derivative:** Oxime

**Molecular Formula:** $C_{17}H_{11}NO$
**Molecular Weight:** 245.28
**Accurate Mass:** 245.084064
**Percentage Composition:** C 83.25%; H 4.52%; N 5.71%; O 6.52%
**Physical Description:** Pale-yellow cryst. (EtOH)
**Melting Point:** Mp 171°

**References:**

*Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **2**, 904B, *(nmr)*
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Scholl, R. *et al.*, *Annalen*, 1912, **394**, 111, *(synth)*
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Frank, H.G. *et al.*, *Chem. Ber.*, 1966, **99**, 3298, *(uv)*
Craig, J.T. *et al.*, *Aust. J. Chem.*, 1972, **25**, 837, *(synth, nmr)*
Lewis, R.J.*, Sax's Dangerous Properties of Industrial Materials, 8th edn., Van Nostrand Reinhold*, 1992, BBI250