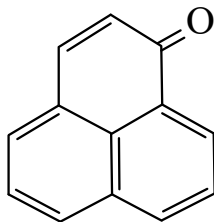




>>Entry Name: **1*H*-Phenalen-1-one**, 9CI

Synonym(s): Phenalone. *peri*-Naphthindenone. *peri*-Naphthindone. 1*H*-Benzonaphthen-1-one. Perinaphthone. Perinaphthenone



CAS Registry Number: 548-39-0

Molecular Formula: C₁₃H₈O

Molecular Weight: 180.206

Accurate Mass: 180.057515

Percentage Composition: C 86.65%; H 4.47%; O 8.88%

Use/Importance: Efficient singlet oxygen sensitiser

Physical Description: Yellow leaflets (MeOH or cyclohexane)

Melting Point: Mp 153-154°

Other Data: Yellow soln. with green fluor. in conc. H₂SO₄

Aldrich: P1080-1

>>**Derivative:** Oxime

CAS Registry Number: 16485-97-5

Molecular Formula: C₁₃H₉NO

Molecular Weight: 195.22

Accurate Mass: 195.068414

Percentage Composition: C 79.98%; H 4.65%; N 7.17%; O 8.20%

Physical Description: Yellow leaflets (EtOH aq.)

Melting Point: Mp 166.8-167.3°

>>**Derivative:** Hydrazone

CAS Registry Number: 6968-74-7

Molecular Formula: C₁₃H₁₀N₂

Molecular Weight: 194.235

Accurate Mass: 194.084398

Percentage Composition: C 80.39%; H 5.19%; N 14.42%

Physical Description: Brown-yellow needles (EtOH)

Melting Point: Mp 125-130 dec.°

Rare Chemicals Library: S44144-9

>>**Derivative:** Semicarbazone

Melting Point: Mp 210 dec.°

References:

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