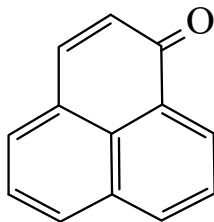




>>Entry Name: **1*H*-Phenalen-1-one**, 9CI

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



**CAS Registry Number:** 548-39-0

**Molecular Formula:** C<sub>13</sub>H<sub>8</sub>O

**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. H<sub>2</sub>SO<sub>4</sub>

**Aldrich:** P1080-1

>>**Derivative:** Oxime

**CAS Registry Number:** 16485-97-5

**Molecular Formula:** C<sub>13</sub>H<sub>9</sub>NO

**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:** C<sub>13</sub>H<sub>10</sub>N<sub>2</sub>

**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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