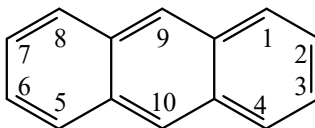




>> **Name: Anthracene**



**CAS Registry Number:** 120-12-7

**Related CAS Registry Numbers(s):** 1719-06-8 34512-28-2

**Molecular Formula:** C<sub>14</sub>H<sub>10</sub>

**Molecular Weight:** 178.233

**Accurate Mass:** 178.07825

**Percentage Composition:** C 94.35%; H 5.65%

**Source/Synthesis:** Found in coal tar

**Use/Importance:** Dyestuff intermed. Reference material used in elemental microanalysis

**Physical Description:** Monoclinic plates (EtOH), colourless with violet fluor. when pure

**Melting Point:** Mp 216.1°

**Boiling Point:** Bp 339.9°

**Density:** d<sub>4</sub><sup>25</sup> 1.283

**pKa Value:** pK<sub>a</sub> -7.8 (H<sub>2</sub>SO<sub>4</sub> aq.)

**Other Data:** Strongly triboluminescent

**Hazard & Toxicity:** Fl. p. 121°, autoignition temp. 540°. Skin irritant and allergen

**Aldrich:** 14106-2

**Fluka:** 10590

**Rare Chemicals Library:** S44234-8

**Sigma:** A3885

**Supelco:** R42-3010

>> **Derivative:** Trinitrotoluene complex

**CAS Registry Number:** 29506-24-9

**Melting Point:** Mp 162°

>> **Derivative:** Picrate

**CAS Registry Number:** 17356-96-6

**Physical Description:** Dark red needles (CHCl<sub>3</sub>)

**Melting Point:** Mp 138-139°

>> **Derivative:** Trinitrobenzene complex

**CAS Registry Number:** 1700-13-6

**Physical Description:** Yellow needles (EtOH)

**Melting Point:** Mp 161-165°

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