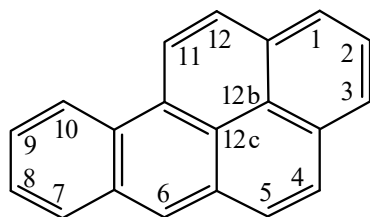




>>Entry Name: Benzo[*a*]pyrene, 9CI

Synonym(s): 3,4-Benzpyrene. 3,4-Benzopyrene. 1,2-Benzpyrene (obsol.)‡



CAS Registry Number: 50-32-8

Extra CAS Registry Numbers(s): 73467-76-2

Molecular Formula: C<sub>20</sub>H<sub>12</sub>

Molecular Weight: 252.315

Accurate Mass: 252.0939

Percentage Composition: C 95.21%; H 4.79%

Source/Synthesis: A principal carcinogenic constit. of coal tars, air pollution, etc.

Use/Importance: Extensively used in cancer research. Characteristic fluorescence spectrum; used as a marker for detn. of polycyclic hydrocarbon residues, although it may not be the principal carcinogen

Physical Description: Pale-yellow needles (C<sub>6</sub>H<sub>6</sub>/MeOH)

Melting Point: Mp 177°

Boiling Point: Bp<sub>10</sub> 310-312°

**Hazard & Toxicity:** Probable human carcinogen. Potent exp. carcinogen and neoplastic agent. Skin irritant. Exp. reprod. and teratogenic effects

Aldrich: B1008-0

Fluka: 12780

Sigma: B3500

Supelco: R43-0730

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