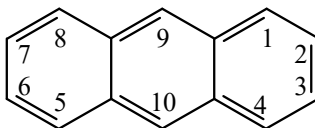




>>Entry Name: Anthracene



CAS Registry Number: 120-12-7

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

Molecular Formula: C₁₄H₁₀

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: d₄²⁵ 1.283

pKa Value: pK_a -7.8 (H₂SO₄ 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 (CHCl₃)

Melting Point: Mp 138-139°

>>Derivative: Trinitrobenzene complex

CAS Registry Number: 1700-13-6

Physical Description: Yellow needles (EtOH)

Melting Point: Mp 161-165°

References:

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