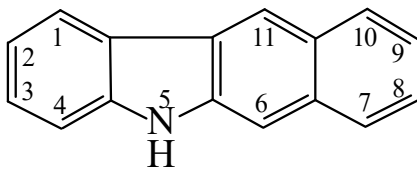




>>Entry Name: **5*H*-Benzo[*b*]carbazole**

Synonym(s): 2,3-Benzocarbazole. β -Benzocarbazole



CAS Registry Number: 243-28-7

Molecular Formula: $C_{16}H_{11}N$

Molecular Weight: 217.27

Accurate Mass: 217.089149

Percentage Composition: C 88.45%; H 5.10%; N 6.45%

Physical Description: Leaflets (toluene)

Melting Point: Mp 332°

Other Data: Blue fluor.

>>Derivative: *N*-Ac

CAS Registry Number: 21064-53-9

Molecular Formula: $C_{18}H_{13}NO$

Molecular Weight: 259.307

Accurate Mass: 259.099714

Percentage Composition: C 83.38%; H 5.05%; N 5.40%; O 6.17%

Physical Description: Needles (EtOH)

Melting Point: Mp 117°. Mp 121° (dimorph.)

Other Data: Blue fluor.

>>Derivative: *N*-Nitroso

Molecular Formula: $C_{16}H_{10}N_2O$

Molecular Weight: 246.268

Accurate Mass: 246.079313

Percentage Composition: C 78.04%; H 4.09%; N 11.38%; O 6.50%

Physical Description: Red prisms (Et₂O)

Melting Point: Mp 240°

References:

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Bucherer, H.T. *et al.*, *J. Prakt. Chem.*, 1910, **81**, 29

Zander, M., *Ber. Bunsen-Ges. Phys. Chem.*, 1968, **72**, 1161, (*uv*)

Sha, C.-K. *et al.*, *J.C.S. Perkin I*, 1987, 977, (*synth*, *ir*, *pmr*)

Gribble, G.W. *et al.*, *J.O.C.*, 1992, **57**, 5878, (*synth*, *uv*, *pmr*, *ms*)