



>>Entry Name: 5,6,11,12-Tetraphenylnaphthacene

Synonym(s): 5,6,11,12-Tetraphenyl-1,2-benzanthracene. Rubrene

CAS Registry Number: 517-51-1

Molecular Formula: C₄₂H₂₈

Molecular Weight: 532.683

Accurate Mass: 532.2191

Percentage Composition: C 94.70%; H 5.30%

Physical Description: Red cryst.

Melting Point: Mp 331°

Other Data: Solns. are orange when conc. but pink with yellow fluor. when dilute

Aldrich: R220-6

Fluka: 84027

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 55C, (nmr)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 967D, (ir)

Dufraisse, C. *et al.*, *Bull. Soc. Chim. Fr.*, 1930, **47**, 216; 548; 1936, 1847; 1905

Allen, C.F.H. *et al.*, *J.A.C.S.*, 1936, **58**, 937

Koblitz, W. *et al.*, *Ber.*, 1936, **69**, 1806

Wittig, G. *et al.*, *J. Prakt. Chem.*, 1942, **160**, 242

Perronet, J., *Ann. Chim. (Paris)*, 1959, **4**, 365