



>>Entry Name: 2,5-Diphenylthiophene, 9CI

CAS Registry Number: 1445-78-9

Structure by analogy with 2,3-Diphenylthiophene, [GDN23-C](#)

Molecular Formula: C₁₆H₁₂S

Molecular Weight: 236.337

Accurate Mass: 236.06597

Percentage Composition: C 81.31%; H 5.12%; S 13.57%

Physical Description: Plates (Me₂CO)

Melting Point: Mp 155°

>>Derivative: S-Oxide

CAS Registry Number: 163083-15-6

Molecular Formula: C₁₆H₁₂OS

Molecular Weight: 252.336

Accurate Mass: 252.060885

Percentage Composition: C 76.16%; H 4.79%; O 6.34%; S 12.71%

Physical Description: Solid

Melting Point: Mp 124-126 dec.°

Other Data: Stable at -20°. Slowly dec. in soln. at r.t.

>>Derivative: S,S-Dioxide

CAS Registry Number: 51092-02-5

Molecular Formula: C₁₆H₁₂O₂S

Molecular Weight: 268.336

Accurate Mass: 268.0558

Percentage Composition: C 71.62%; H 4.51%; O 11.92%; S 11.95%

Melting Point: Mp 178-179°

References:

Schulte, K.E. *et al.*, *Chem. Ber.*, 1962, **95**, 1943-1954; 1964, **97**, 3263-3267, (*synth, ir*)

Shridhor, D.R. *et al.*, *Synthesis*, 1982, 1061-1062, (*synth, ms, pmr*)

Czogalla, C.D. *et al.*, *Phosphorus Sulfur Relat. Elem.*, 1988, **35**, 127-131, (*synth*)

Del Mazza, D. *et al.*, *Magn. Reson. Chem.*, 1989, **27**, 187-190, (*pmr, cmr*)

Pouzet, P. *et al.*, *Chem. Comm.*, 1995, 473-474, (*oxide, synth, pmr, ir, cryst struct*)

Hotta, S. *et al.*, *J. Het. Chem.*, 2000, **37**, 25-29, (*synth, pmr*)