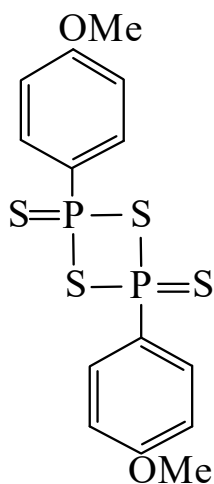




>>Entry Name: 2,4-Bis(4-methoxyphenyl)-1,3,2,4-dithiadiphosphetane 2,4-disulfide, 9CI

Synonym(s): *p*-Methoxyphenylthionophosphine sulfide dimer. *p*-Methoxyphenyldithioxophosphorane dimer. Lawesson's reagent



CAS Registry Number: 19172-47-5

Molecular Formula: C₁₄H₁₄O₂P₂S₄

Molecular Weight: 404.475

Accurate Mass: 403.935184

Percentage Composition: C 41.57%; H 3.49%; O 7.91%; P 15.32%; S 31.71%

Use/Importance: Highly effective reagent for thiation of ketones, amides and esters. Intermed. in the synth. of *S*- and *P*- containing heterocyclic compds. Peptide-coupling reagent inducing little or no racemisation

Physical Description: Cryst. (1,2-dichlorobenzene)

Melting Point: Mp 229°

Other Data: V. sensitive to moisture. May exist partly as the dithioxo monomer in soln.

Aldrich: 22743-9

Fluka: 61750

Sigma: M5264

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