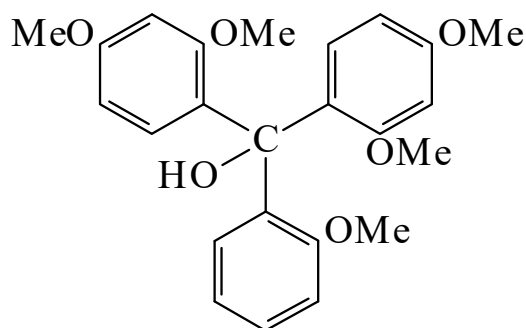




>>Entry Name: Pentamethoxy red

Synonym(s): α -(2,4-Dimethoxyphenyl)-2,4-dimethoxy- α -(2-methoxyphenyl)benzenemethanol, 9Cl. Bis(2,4-dimethoxyphenyl)(*o*-methoxyphenyl)methanol. 2,4,2',4',2''-Pentamethoxytriphenylcarbinol



CAS Registry Number: 1755-51-7

Molecular Formula: C₂₄H₂₆O₆

Molecular Weight: 410.466

Accurate Mass: 410.17294

Percentage Composition: C 70.23%; H 6.38%; O 23.39%

Use/Importance: Used as 0.1% soln. in 70% EtOH as acid base indicator (pH range; 1.2-3.2, colour change: purple → colourless)

Physical Description: Red cryst. (C₆H₆)

Solubility: Sol. EtOH

pKa Value: p*K*_a 1.7

Rare Chemicals Library: S26541-1

References:

Lund, H., *J.A.C.S.*, 1927, **49**, 1346, (*synth*)

Kolthoff, I.M. *et al.*, *J.A.C.S.*, 1939, **61**, 16, (*ind*)

Bishop, E., *Indicators*, Pergamon, Oxford, 1972, (*use*)