



>>Entry Name: Triphenylmethanol, 8Cl

Synonym(s): α,α -Diphenylbenzenemethanol, 9Cl. Triphenylcarbinol. α -Hydroxytriphenylmethane. Tritanol. Trityl alcohol

CAS Registry Number: 76-84-6

Ph₃COH

Molecular Formula: C₁₉H₁₆O

Molecular Weight: 260.335

Accurate Mass: 260.120115

Percentage Composition: C 87.66%; H 6.19%; O 6.15%

Use/Importance: Used as 0.1% soln. in MeNO₂ as an acid-base indicator in Ac₂O medium

Physical Description: Cryst. (EtOH or C₆H₆)

Melting Point: Mp 164-165°

Boiling Point: Bp 360-380°

Solubility: Sol. EtOH, C₆H₆

pKa Value: pK_a -6.55 (15°, H₂SO₄ aq.)

Aldrich: 13484-8

Fluka: 93060

Sigma: T4646

>>Derivative: Me ether

Synonym(s): 1,1',1''-(Methoxymethylidene)trisbenzene, 9Cl. Methyl trityl ether

CAS Registry Number: 596-31-6

Molecular Formula: C₂₀H₁₈O

Molecular Weight: 274.362

Accurate Mass: 274.135765

Percentage Composition: C 87.56%; H 6.61%; O 5.83%

Melting Point: Mp 79-80°

Fluka: 69493

Rare Chemicals Library: S58110-0

References:

Aldrich Library of 13C and 1H FT NMR Spectra, 1992, **2**, 338A, (*nmr*)

Aldrich Library of FT-IR Spectra, 1st edn., 1985, **1**, 1125D, (*ir*)

Orndorff, W.R. *et al.*, *J.A.C.S.*, 1927, **49**, 1543, (*uv*)

Wittig, G. *et al.*, *Annalen*, 1947, **557**, 201, (*Me ether*)

Fritz, J.S. *et al.*, *Anal. Chem.*, 1953, **25**, 1837, (*use, ind*)

Org. Synth., Coll. Vol., 3, 1955, 839, (*synth*)

Dubsky, G.J. *et al.*, *Helv. Chim. Acta*, 1970, **53**, 1965, (*synth*)

Ferguson, G. *et al.*, *Acta Cryst. C*, 1992, **48**, 1272, (*cryst struct*)