



>>Entry Name: 1,1,3-Triphenyl-2-propyn-1-ol, 8Cl

Synonym(s): α -Phenyl- α -(phenylethynyl)benzenemethanol, 9Cl

CAS Registry Number: 1522-13-0

PhC $\equiv$ CCPh₂OH

Molecular Formula: C₂₁H₁₆O

Molecular Weight: 284.357

Accurate Mass: 284.120115

Percentage Composition: C 88.70%; H 5.67%; O 5.63%

Physical Description: Cryst. (petrol)

Melting Point: Mp 82°

Aldrich: 11500-2

Rare Chemicals Library: S14938-1

>>Derivative: Ac

CAS Registry Number: 56024-62-5

Molecular Formula: C₂₃H₁₈O₂

Molecular Weight: 326.394

Accurate Mass: 326.13068

Percentage Composition: C 84.64%; H 5.56%; O 9.80%

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 93-94°

>>Derivative: Propanoyl

Molecular Formula: C₂₄H₂₀O₂

Molecular Weight: 340.421

Accurate Mass: 340.14633

Percentage Composition: C 84.68%; H 5.92%; O 9.40%

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 83-84°

>>Derivative: Benzoyl

Molecular Formula: C₂₈H₂₀O₂

Molecular Weight: 388.465

Accurate Mass: 388.14633

Percentage Composition: C 86.57%; H 5.19%; O 8.24%

Physical Description: Cryst. (Et₂O/petrol)

Melting Point: Mp 95-100°

>>Derivative: Me ether

Synonym(s): 1,1',1''-(3-Methoxy-1-propyn-1-yl-3-ylidene)trisbenzene, 9Cl. Methyl 1,1,3-triphenyl-2-propynyl ether, 8Cl. 3-Methoxy-1,3,3-triphenyl-1-propyne

CAS Registry Number: 850-65-7

Molecular Formula: C₂₂H₁₈O

Molecular Weight: 298.384

Accurate Mass: 298.135765

Percentage Composition: C 88.56%; H 6.08%; O 5.36%

Physical Description: Cryst. (EtOH); plates (MeOH)

Melting Point: Mp 124°

References:

Mourea, C. *et al.*, *Bull. Soc. Chim. Fr.*, 1927, **41**, 53, (*Ac, propanoyl, benzoyl*)

Fiesselmann, H. *et al.*, *Chem. Ber.*, 1956, **89**, 1775, (*Me ether*)

Olah, G.A. *et al.*, *J.A.C.S.*, 1965, **87**, 5632-5637; 1974, **96**, 5855-5859, (*pmr, cmr, synth*)

Adegoke, E.A. *et al.*, *J. Het. Chem.*, 1987, **24**, 1705, (*synth, pmr*)

Ferguson, G. *et al.*, *Acta Cryst. B*, 1995, **51**, 367, (*cryst struct*)

Deagostino, A. *et al.*, *J.C.S. Perkin I*, 1995, 2757, (*synth, pmr, cmr, ms*)