



>>Entry Name: 1,6-Diphenyl-1,3,5-hexatriene, 8Cl

Synonym(s): 1,1'-(1,3,5-Hexatriene-1,6-diyl)bisbenzene, 9Cl. DPH

CAS Registry Number: 1720-32-7

Type of Compound Code(s): PG5520 PS8200 PS7720

PhCH=CHCH=CHCH=CHPh

Molecular Formula: C₁₈H₁₆

Molecular Weight: 232.324

Accurate Mass: 232.1252

Percentage Composition: C 93.06%; H 6.94%

Use/Importance: Fluorescence probe for membrane fluidity studies. Used as 0.03% soln. in CHCl₃ for detn. of lipids. Used in liquid scintillation spectrometry

Aldrich: D20800-0

Fluka: 43050

Sigma: D4380

>>Variant: (E,E,E)-form

Synonym(s): *all-trans*-form

CAS Registry Number: 17329-15-6

Molecular Formula: C₁₈H₁₆

Molecular Weight: 232.324

Accurate Mass: 232.1252

Percentage Composition: C 93.06%; H 6.94%

Physical Description: Cryst. (EtOH) or pale yellow leaflets (EtOH/dioxan)

Melting Point: Mp 203-204° (192°)

>>Variant: (1E,3E,5Z)-form

Synonym(s): *cis,trans,trans*-form

CAS Registry Number: 38557-35-6

Molecular Formula: C₁₈H₁₆

Molecular Weight: 232.324

Accurate Mass: 232.1252

Percentage Composition: C 93.06%; H 6.94%

Physical Description: Oil

>>Variant: (1E,3Z,5E)-form

Synonym(s): *trans,cis,trans*-form

CAS Registry Number: 38557-34-5

Molecular Formula: C₁₈H₁₆

Molecular Weight: 232.324

Accurate Mass: 232.1252

Percentage Composition: C 93.06%; H 6.94%

Physical Description: Cryst. (hexane)

Melting Point: Mp 109-110°

>>Variant: (1Z,3E,5Z)-form

Synonym(s): *cis,trans,cis*-form

CAS Registry Number: 170080-16-7

Molecular Formula: C₁₈H₁₆

Molecular Weight: 232.324

Accurate Mass: 232.1252

Percentage Composition: C 93.06%; H 6.94%

Melting Point: Mp 100°

References: