



>>Entry Name: 4,4',4''-Trimethyltriphenylamine

Synonym(s): 4-Methyl-*N,N*-bis(4-methylphenyl)benzenamine, 9Cl. Tri-*p*-tolylamine, 8Cl. Tris(*p*-tolyl)amine

CAS Registry Number: 1159-53-1

Molecular Formula: C₂₁H₂₁N

Molecular Weight: 287.404

Accurate Mass: 287.167399

Percentage Composition: C 87.76%; H 7.36%; N 4.87%

Use/Importance: Forms v. stable radical cation

Physical Description: Cryst. powder

Melting Point: Mp 117°

Aldrich: 45976-3

>>Derivative: Perchlorate

CAS Registry Number: 34729-49-2

Physical Description: Red-bronze cryst.

Melting Point: Mp 129-130°

Solubility: Forms blue solns. in CHCl₃, Me₂CO and EtOH

References:

Wieland, H., *Ber.*, 1907, **40**, 4260, (*synth*)

Weitz, E. *et al.*, *Ber.*, 1926, **59**, 2307

Granick, S., *J.A.C.S.*, 1940, **62**, 2241, (*radical*)

Walter, R.I., *J.A.C.S.*, 1955, **77**, 5999, (*synth, deriv, bibl*)

Iwaizumi, M. *et al.*, *Bull. Chem. Soc. Jpn.*, 1965, **38**, 501, (*epr*)