



>>Entry Name: Triphenylmethyl(1+)

Synonym(s): Triphenylmethylium, 9Cl. Trityl cation, 8Cl

CAS Registry Number: 13948-08-8

Related CAS Registry Numbers(s): 437-17-2 437-18-3 3058-33-1
 $\text{Ph}_3\text{C}^{(+)}$

Molecular Formula: $\text{C}_{19}\text{H}_{15}^{(+)}$

Molecular Weight: 243.327

Accurate Mass: 243.117375

Percentage Composition: C 93.79%; H 6.21%

>>Derivative: Tetrafluoroborate

CAS Registry Number: 341-02-6

Molecular Formula: $\text{C}_{19}\text{H}_{15}\text{BF}_4$

Molecular Weight: 330.132

Accurate Mass: 330.120292

Percentage Composition: C 69.13%; H 4.58%; B 3.27%; F 23.02%

Use/Importance: Reagent for alkene synth. and alcohol oxidn.

Physical Description: Yellow solid

Melting Point: Mp 200° (dec.)

Hazard & Toxicity: Corrosive

Aldrich: 16457-7

Fluka: 93457

>>Derivative: Hexachloroantimonate

CAS Registry Number: 1586-91-0

Molecular Formula: $\text{C}_{19}\text{H}_{15}\text{Cl}_6\text{Sb}$

Molecular Weight: 577.794

Accurate Mass: 573.834308

Percentage Composition: C 39.50%; H 2.62%; Cl 36.82%; Sb 21.07%

Physical Description: Yellow prisms

Melting Point: Mp 218°

Aldrich: 16455-0

>>Derivative: Tetrakis(pentafluorophenyl)borate(1-)

References:

Olah, G.A. *et al.*, *Synthesis*, 1972, 544, (*synth*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1974, **4**, 330; 548; 1980, **8**, 524, (*use*)