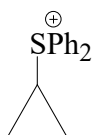




>>Entry Name: Cyclopropyldiphenylsulfonium(1+)



Molecular Formula: C₁₅H₁₅S⁽⁺⁾

Molecular Weight: 227.35

Accurate Mass: 227.089445

Percentage Composition: C 79.25%; H 6.65%; S 14.10%

>>Derivative: Tetrafluoroborate

CAS Registry Number: 33462-81-6

Molecular Formula: C₁₅H₁₅BF₄S

Molecular Weight: 314.154

Accurate Mass: 314.092362

Percentage Composition: C 57.35%; H 4.81%; B 3.44%; F 24.19%; S 10.21%

Physical Description: Cryst. (EtOH)

Melting Point: Mp 137-139°

>>Derivative: Ylide

Synonym(s): Diphenylsulfonium cyclopropylide

CAS Registry Number: 29800-44-0

Molecular Formula: C₁₅H₁₄S

Molecular Weight: 226.342

Accurate Mass: 226.08162

Percentage Composition: C 79.60%; H 6.23%; S 14.17%

Use/Importance: Reagent for spiroalkylation of enones, oxaspiroalkylation of carbonyl compds. and alkene cyclopropanation

Other Data: Generated *in situ*

References:

Trost, B.M. *et al.*, *J.A.C.S.*, 1973, **95**, 5298-5307; 5307-5310; 5311-5321; 5321-5334; 1975, **97**, 2218; 1976, **98**, 248; 1979, **101**, 1328, (*synth, use*)

Trost, B.M., *Acc. Chem. Res.*, 1974, **7**, 85-92, (*rev*)

Fieser and Fieser's Reagents for Organic Synthesis, Wiley, 1980, **8**, 212; 1986, **12**, 217, (*use*)

Org. Synth., Coll. Vol., 6, 1988, 364-367, (*synth*)