>>**Entry Name: Triethyloxonium(1+)**

CAS Registry Number: 24935-24-8
$Et_3O^{(+)}$

Molecular Formula: $C_6H_{15}O^{(+)}$
Molecular Weight: 103.184
Accurate Mass: 103.11229
Percentage Composition: C 69.84%; H 14.65%; O 15.51%

>>**Derivative:** Tetrafluoroborate
Synonym(s): Triethyloxonium tetrafluoroborate, 9CI. Triethyloxonium fluoroborate. Meerwein's reagent

CAS Registry Number: 368-39-8
Molecular Formula: $C_6H_{15}BF_4O$
Molecular Weight: 189.988
Accurate Mass: 190.115207
Percentage Composition: C 37.93%; H 7.96%; B 5.69%; F 40.00%; O 8.42%
Use/Importance: Powerful alkylating agent. Commercially available. Catalyst for polym. of epoxides
Physical Description: Hygroscopic cryst. (Et_2O)
Melting Point: Mp 91-92 dec.°
Solubility: Sol. CH_2Cl_2, sl. sol. Et_2O
Other Data: V. hygroscopic, light-sensitive

Aldrich: 39928-0
Fluka: 90520

>>**Derivative:** Hexafluorophosphate

CAS Registry Number: 17950-40-2
Molecular Formula: $C_6H_{15}F_6OP$
Molecular Weight: 248.148
Accurate Mass: 248.07647
Percentage Composition: C 29.04%; H 6.09%; F 45.94%; O 6.45%; P 12.48%
Physical Description: Cryst. (CH_2Cl_2/Et_2O)
Melting Point: Mp 142-143°
Aldrich: 16468-2
Fluka: 91651

>>**Derivative:** Hexachloroantimonate

CAS Registry Number: 3264-67-3
Molecular Formula: $C_6H_{15}Cl_6OSb$
Molecular Weight: 437.65
Accurate Mass: 433.829223
Percentage Composition: C 16.47%; H 3.45%; Cl 48.60%; O 3.66%; Sb 27.82%
Physical Description: Cryst. (1,2-dichloroethane)
Melting Point: Mp 131°. Mp 135-137° (dec.)

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