



>>Entry Name: Benzyltriethylammonium(1+)

Synonym(s): *N,N,N*-Triethylbenzenemethanaminium, 9Cl

CAS Registry Number: 16652-03-2

$\text{PhCH}_2\text{N}^{(+)}\text{Et}_3$

Molecular Formula: $\text{C}_{13}\text{H}_{22}\text{N}^{(+)}$

Molecular Weight: 192.323

Accurate Mass: 192.175224

Percentage Composition: C 81.19%; H 11.53%; N 7.28%

Use/Importance: Phase-transfer catalyst

>>Derivative: Chloride

CAS Registry Number: 56-37-1

Molecular Formula: $\text{C}_{13}\text{H}_{22}\text{ClN}$

Molecular Weight: 227.776

Accurate Mass: 227.144076

Percentage Composition: C 68.55%; H 9.73%; Cl 15.56%; N 6.15%

Physical Description: Cryst.

Aldrich: 14655-2

Fluka: 13950

>>Derivative: Bromide

CAS Registry Number: 5197-95-5

Molecular Formula: $\text{C}_{13}\text{H}_{22}\text{BrN}$

Molecular Weight: 272.227

Accurate Mass: 271.11356

Percentage Composition: C 57.36%; H 8.15%; Br 29.35%; N 5.15%

Melting Point: Mp 194 dec.°

Aldrich: 14712-5

Fluka: 13947

>>Derivative: Iodide

CAS Registry Number: 5400-94-2

Molecular Formula: $\text{C}_{13}\text{H}_{22}\text{IN}$

Molecular Weight: 319.228

Accurate Mass: 319.079697

Percentage Composition: C 48.91%; H 6.95%; I 39.75%; N 4.39%

Physical Description: Cryst.

Melting Point: Mp 148-149°

Fluka: 13955

>>Derivative: Hydroxide

Synonym(s): Benzyltriethylammonium hydroxide

CAS Registry Number: 1836-42-6

Molecular Formula: $\text{C}_{13}\text{H}_{23}\text{NO}$

Molecular Weight: 209.331

Accurate Mass: 209.177964

Percentage Composition: C 74.59%; H 11.07%; N 6.69%; O 7.64%

Use/Importance: Strong base with wide applicability

Solubility: Sol. H_2O , org. solvs.

>>Derivative: Tetrafluoroborate

CAS Registry Number: 77794-93-5

Molecular Formula: $\text{C}_{13}\text{H}_{22}\text{BF}_4\text{N}$

Molecular Weight: 279.128

Accurate Mass: 279.178141

Percentage Composition: C 55.94%; H 7.94%; B 3.87%; F 27.23%; N 5.02%

Melting Point: Mp 113-115.5°

Aldrich: 23231-9

Fluka: 13951