



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

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

CAS Registry Number: 14800-24-9

Related CAS Registry Numbers(s): 6427-70-9 104987-03-3 111865-47-5 127582-36-9

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

Molecular Formula: $\text{C}_{10}\text{H}_{16}\text{N}^{(+)}$

Molecular Weight: 150.243

Accurate Mass: 150.128274

Percentage Composition: C 79.94%; H 10.73%; N 9.32%

>>Derivative: Hydroxide

Synonym(s): Benzyltrimethylammonium hydroxide. Triton B

CAS Registry Number: 100-85-6

Molecular Formula: $\text{C}_{10}\text{H}_{17}\text{NO}$

Molecular Weight: 167.25

Accurate Mass: 167.131014

Percentage Composition: C 71.81%; H 10.24%; N 8.37%; O 9.57%

Use/Importance: Useful catalytic strong base

Melting Point: Fp 15°

Solubility: Sol. in a variety of solvs.

Aldrich: 24603-4

Fluka: 13991

>>Derivative: Fluoride

CAS Registry Number: 329-97-5

Molecular Formula: $\text{C}_{10}\text{H}_{16}\text{FN}$

Molecular Weight: 169.241

Accurate Mass: 169.126677

Percentage Composition: C 70.97%; H 9.53%; F 11.23%; N 8.28%

Use/Importance: Effects regiospecific monoalkylation of enol silyl ethers by alkyl halides

Physical Description: Hygroscopic powder

Fluka: 13985

>>Derivative: Chloride

CAS Registry Number: 56-93-9

Molecular Formula: $\text{C}_{10}\text{H}_{16}\text{ClN}$

Molecular Weight: 185.696

Accurate Mass: 185.097126

Percentage Composition: C 64.68%; H 8.68%; Cl 19.09%; N 7.54%

Use/Importance: Reagent for condensations

Melting Point: Mp 239 dec.°

Other Data: Normally used in soln.

Aldrich: 22898-2

Fluka: 13980

>>Derivative: Bromide

CAS Registry Number: 5350-41-4

Molecular Formula: $\text{C}_{10}\text{H}_{16}\text{BrN}$

Molecular Weight: 230.147

Accurate Mass: 229.06661

Percentage Composition: C 52.19%; H 7.01%; Br 34.72%; N 6.09%

Melting Point: Mp 230-232°

Aldrich: 14711-7

Fluka: 13965