



>>Entry Name: Trimethylphenylammonium(1+), 8Cl

Synonym(s): *N,N,N*-Trimethylbenzenaminium, 9Cl. Phenyltrimethylammonium. Trimethylanilinium

CAS Registry Number: 3426-74-2

[PhNMe₃]⁽⁺⁾

Molecular Formula: C₉H₁₄N⁽⁺⁾

Molecular Weight: 136.216

Accurate Mass: 136.112624

Percentage Composition: C 79.36%; H 10.36%; N 10.28%

>>Derivative: Chloride

CAS Registry Number: 138-24-9

Molecular Formula: C₉H₁₄ClN

Molecular Weight: 171.669

Accurate Mass: 171.081476

Percentage Composition: C 62.97%; H 8.22%; Cl 20.65%; N 8.16%

Boiling Point: Subl. 237°

Hazard & Toxicity: LD₅₀ (mus, scu) 85 mg/kg

Aldrich: 19916-8

Fluka: 79263

Sigma: T6387

>>Derivative: Bromide

CAS Registry Number: 16056-11-4

Molecular Formula: C₉H₁₄BrN

Molecular Weight: 216.12

Accurate Mass: 215.05096

Percentage Composition: C 50.02%; H 6.53%; Br 36.97%; N 6.48%

Physical Description: Cryst. (Me₂CO)

Melting Point: Mp 215 dec.°

Aldrich: 13532-1

Fluka: 79250

>>Derivative: Iodide

CAS Registry Number: 98-04-4

Molecular Formula: C₉H₁₄IN

Molecular Weight: 263.121

Accurate Mass: 263.017097

Percentage Composition: C 41.08%; H 5.36%; I 48.23%; N 5.32%

Melting Point: Mp 230-231°

Aldrich: 13914-9

Fluka: 79269

Rare Chemicals Library: S9644-0

Sigma: T0882

>>Derivative: Ethoxide

Molecular Formula: C₁₁H₁₉NO

Molecular Weight: 181.277

Accurate Mass: 181.146664

Percentage Composition: C 72.88%; H 10.56%; N 7.73%; O 8.83%

Use/Importance: Selective *O*-methylating agent

>>Derivative: Perchlorate

CAS Registry Number: 2525-18-0

Molecular Formula: C₉H₁₄ClNO₄

Molecular Weight: 235.667

Accurate Mass: 235.061136

Percentage Composition: C 45.87%; H 5.99%; Cl 15.04%; N 5.94%; O 27.16%

Melting Point: Mp 178-179°