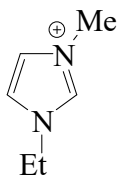




>>Entry Name: 1-Ethyl-3-methyl-1*H*-imidazolium(1+), 9Cl



CAS Registry Number: 65039-03-4

Molecular Formula: C₆H₁₁N₂⁽⁺⁾

Molecular Weight: 111.166

Accurate Mass: 111.092223

Percentage Composition: C 64.83%; H 9.97%; N 25.20%

>>Derivative: Chloride

CAS Registry Number: 65039-09-0

Molecular Formula: C₆H₁₁ClN₂

Molecular Weight: 146.619

Accurate Mass: 146.061075

Percentage Composition: C 49.15%; H 7.56%; Cl 24.18%; N 19.11%

Use/Importance: Forms electrically conducting liq. salts with AlCl₃

Physical Description: Hygroscopic cryst. (MeCN)

Melting Point: Mp 82-87° (77-79°)

>>Derivative: Bromide

CAS Registry Number: 65039-08-9

Molecular Formula: C₆H₁₁BrN₂

Molecular Weight: 191.07

Accurate Mass: 190.030559

Percentage Composition: C 37.72%; H 5.80%; Br 41.82%; N 14.66%

Physical Description: Cryst. (MeCN)

Melting Point: Mp 81° (76.5°)

>>Derivative: Iodide

CAS Registry Number: 35935-34-3

Molecular Formula: C₆H₁₁IN₂

Molecular Weight: 238.071

Accurate Mass: 237.996696

Percentage Composition: C 30.27%; H 4.66%; I 53.31%; N 11.77%

Physical Description: Cryst.

>>Derivative: Tetrafluoroborate

CAS Registry Number: 143314-16-3

Molecular Formula: C₆H₁₁BF₄N₂

Molecular Weight: 197.971

Accurate Mass: 198.09514

Percentage Composition: C 36.40%; H 5.60%; B 5.46%; F 38.39%; N 14.15%

Use/Importance: Liq. electrolyte

Melting Point: Mp 15°

Density: d 1.29

>>Derivative: Hexafluorophosphate

CAS Registry Number: 155371-19-0

Molecular Formula: C₆H₁₁F₆N₂P

Molecular Weight: 256.131

Accurate Mass: 256.056403

Percentage Composition: C 28.14%; H 4.33%; F 44.50%; N 10.94%; P 12.09%

Physical Description: Cryst. (MeOH)

Melting Point: Mp 58-62°