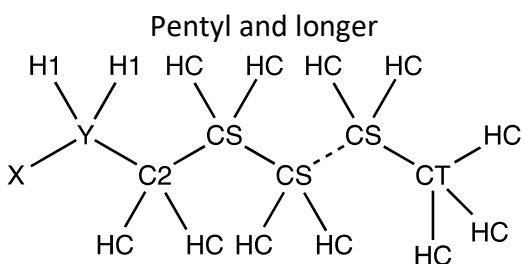
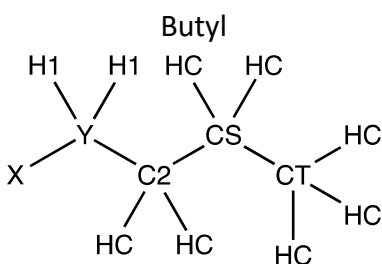
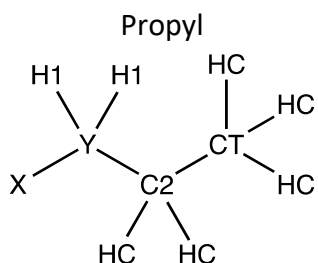
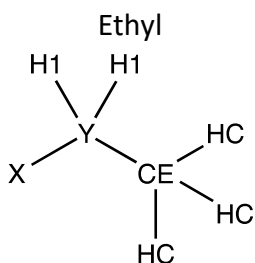
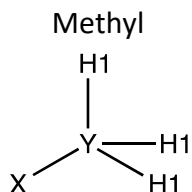


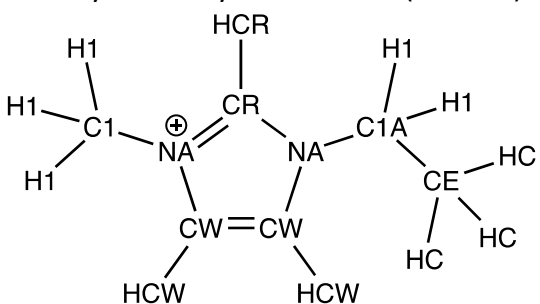
# Cation side chain

X = N, Y = C1A

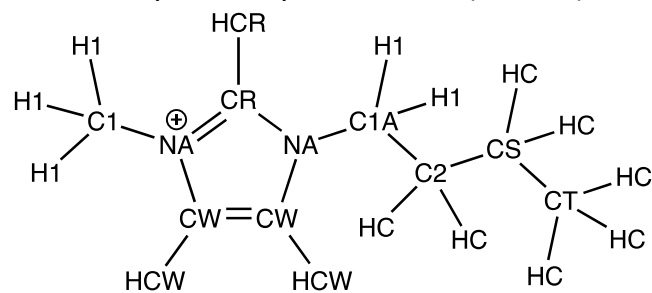
X = P, Y = C1P



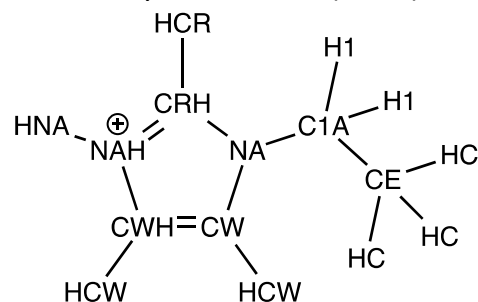
## 1-ethyl-3-methylimidazolium (C<sub>2</sub>C<sub>1</sub>im<sup>+</sup>)



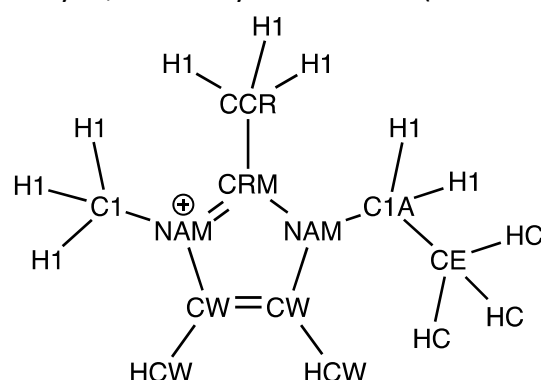
## 1-butyl-3-methylimidazolium (C<sub>4</sub>C<sub>1</sub>im<sup>+</sup>)



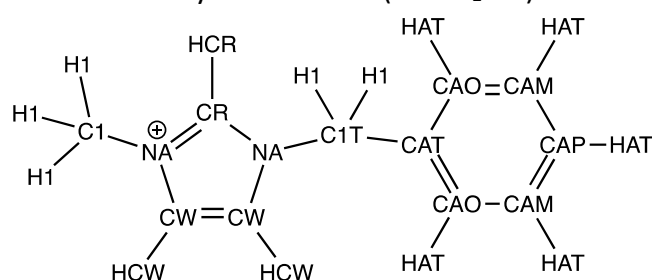
## 1-ethylimidazolium (C<sub>2</sub>im<sup>+</sup>)



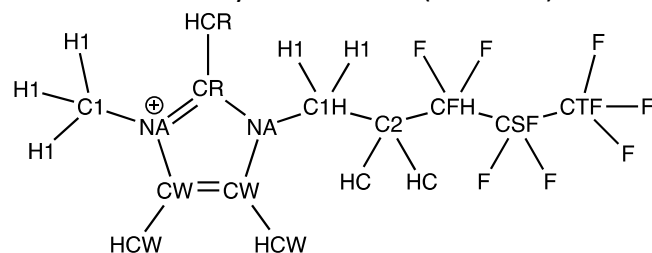
## 1-ethyl-2,3-dimethylimidazolium (C<sub>2</sub>C<sub>1</sub>C<sub>1</sub>im<sup>+</sup>)



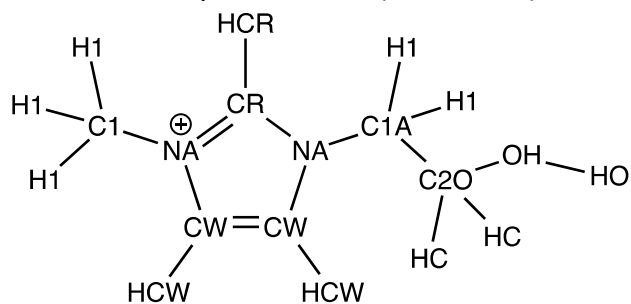
## Benzylimidazolium (benzC<sub>1</sub>im<sup>+</sup>)



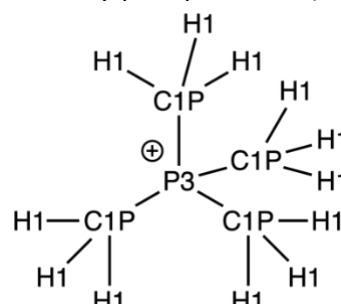
## Fluoroalkylimidazolium (C<sub>5</sub>FC<sub>1</sub>im<sup>+</sup>)



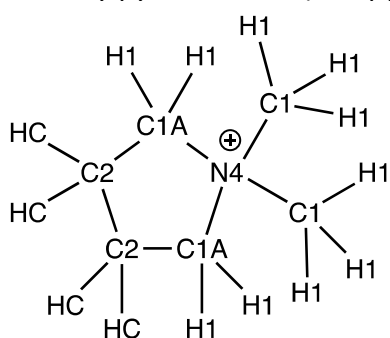
Alkoxyimidazolium ( $\text{C}_2\text{OHC}_1\text{im}^+$ )



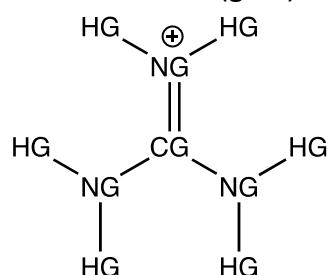
Tetramethylphosphonium ( $\text{P}_{1111}^+$ )



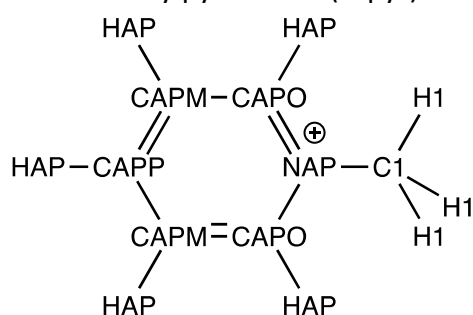
1,1-dimethylpyrrolidinium ( $\text{C}_1\text{C}_1\text{pyrr}^+$ )



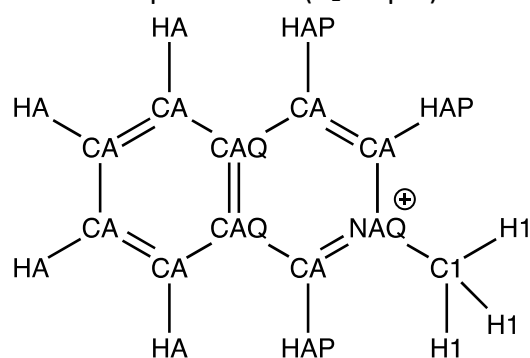
Guanidinium ( $\text{gua}^+$ )



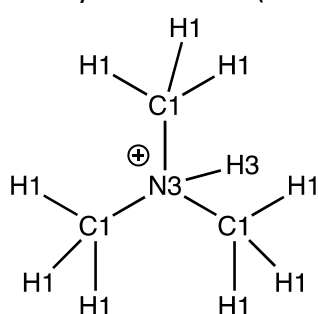
1-methylpyridinium ( $\text{C}_1\text{py}^+$ )



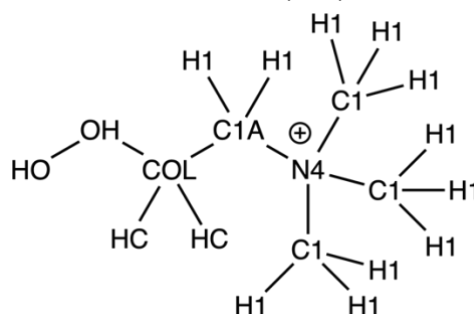
Isoquinolinium ( $\text{C}_1\text{isoqui}^+$ )



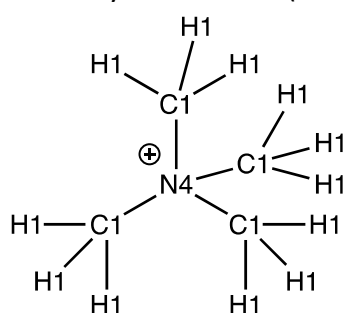
Trimethylammonium ( $\text{N}_{1110}^+$ )



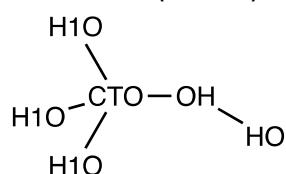
Cholinium ( $\text{Ch}^+$ )



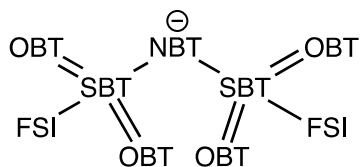
Tetramethylammonium ( $\text{N}_{1111}^+$ )



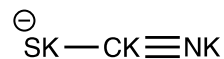
Alcohols ( $\text{MeOH}$ )



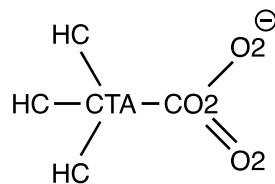
Bis(fluorosulfonyl)imide (FSI<sup>-</sup>)



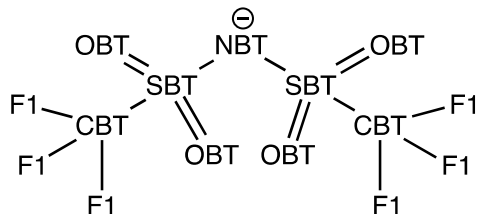
Thiocyanate (CNS<sup>-</sup>)



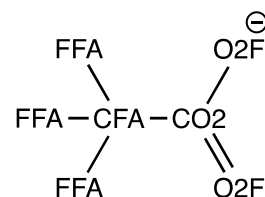
Acetate (OAc<sup>-</sup>)



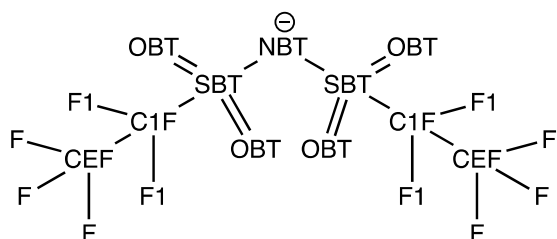
Bis(trifluoromethane)sulfonimide (TFSI<sup>-</sup> or NTf<sub>2</sub><sup>-</sup>)



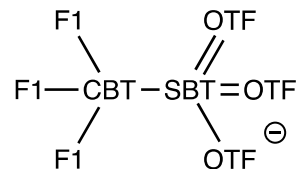
Trifluoroacetate (TFA<sup>-</sup>)



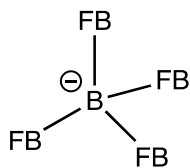
Bis(perfluoroethylsulfonyl)imide (Bet<sup>-</sup>)



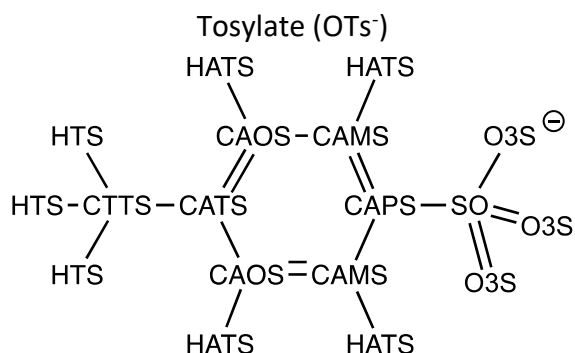
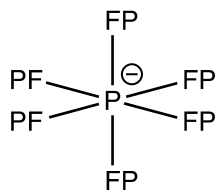
Triflate (OTf<sup>-</sup>)



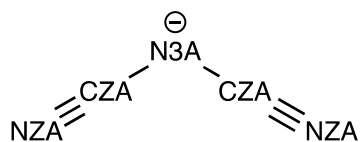
Tetrafluoroborate (BF<sub>4</sub><sup>-</sup>)



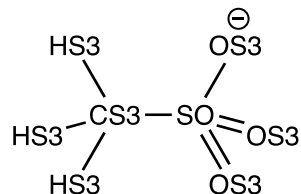
Hexafluorophosphate (PF<sub>6</sub><sup>-</sup>)



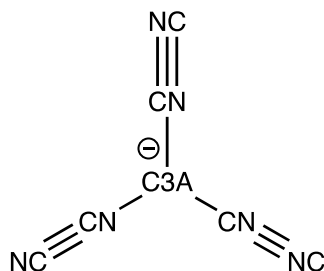
Dicyanamide (dca<sup>-</sup>)



Alkylsulfonates (RSO<sub>3</sub><sup>-</sup>)



Tricyanomethanide (C(CN)<sub>3</sub><sup>-</sup>)



Alkylsulfates (RSO<sub>4</sub><sup>-</sup>)

