

CHEMISTRY

Advanced Edit

Acetamidines are the starting materials of many compoundsentities, that in turn can be used to prepare find usage for compounds withof biochemical activity manufacture. However, the free acetamidine base absorbs moisture from the atmosphere, decomposes at elevated temperatures, and is converted into acetamidinium carbonate when stored in contact with air for a short while at room temperature. Hence, So acetamidinium salts are preferred alternatives to acetamidines. Many synthetic routes tofer acetamidinium salts have been reviewed. Among the various acetamidinium salts available, acetamidinium chloride is the most commonly used salt of acetamidine; and it is prepared by mixing acetonitrile with an alcohol in the presence of hydrogen chloride, followed by the addition of ammonia to the intermediate imine ether after the mixing of acetonitrile and alcohol in the presence of hydrogen chloride. The main disadvantage of acetamidinium chloride is that its release of the free base is released when the salt is dissolved in methanol in the presence of a methoxide, producing sodium chloride, which is partly soluble in methanol. This conversion is unfavourable in certain syntheses, and because the complete removal of sodium chloride is tedious.

Comment [A1]: If you are referring to chlorides specifically, please change this term accordingly and add the necessary citations.

Comment [A2]: I have reordered the sequence of processes used in the synthesis for better clarity. I hope the change is correct.

