

Ammonium acetate may produce ammonium azide *in situ* by reaction of ammonium acetate and sodium azide making availability of azide ion for [3+2] cycloaddition with nitrile easily and also ammonium acetate is used as the proton source to provide the desired tetrazoles [39,40].

4. Conclusions

A simple and efficient method for the synthesis of 5-substituted-1*H*-tetrazoles *via* the [3+2] cycloaddition reaction of nitriles with sodium azide in the presence of 5 mol % of nickel zirconium phosphate as a reusable catalyst was developed. The reaction with good to high yields and relatively short reaction time are the attractive advantages of this method. This methodology may find widespread use in organic synthesis for the preparation of 5-substituted-1*H*-tetrazoles.

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