Advanced Process Development into Future

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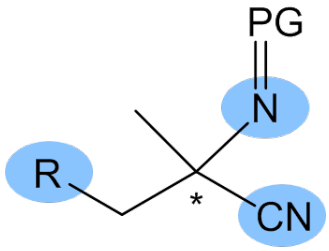
The lecture outlines an innovative process design approach enabling a new access to quarternary N-protected α-Methylaminonitrils.



R = OH, Ph, *i*-Pr

Such advanced key intermediates can be widely used and their manifold applications are based on three functional groups with different reactivities and the availability of both of their enantiomers in high yield and purity.

An originally racemic synthesis route leading to an API could be successfully transformed by using this novel chiral building block to an enantiomeric pure synthesis with significant economic advantage. The existing route with seven steps could hence be reduced to only three steps.

Key words: Enantiopure α-Methylaminonitrils, stereoselective synthesis; industrial process, Hazardous Reaction.