

# Synthesis of Alkoxy-Alkyl- Tetrazolo[1,5-*a*] Quinoline & Tetrazolo[1,5-*a*] Quinoline-4-Carbaldehyde Derivatives Under Green Conditions

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**Abstract:** Mild and efficient synthesis of alkoxy-alkyl- tetrazolo[1,5-*a*] quinoline and tetrazolo[1,5-*a*] quinoline-4-carbaldehyde derivatives via solvent tuned under greener conditions in a one-pot fashion is reported. The three-component reaction involves a new reagent combination with TMSN<sub>3</sub>/ROH (R= alkyl) for the two functional group transformations of 2-chloro-3-formyl quinoline to obtain alkoxy-alkyl-tetrazolo[1,5-*a*]quinoline derivatives via SNAr/azide ring chain tautomerization /acetalization in one-pot fashion with good to excellent yields. On the other hand, we used Ionic Azides (N-alkylimidazoliumazide, N-alkylpyridiniumazide) as a green solvent cum azidation agent to obtain tetrazolo[1,5-*a*]quinoline-4-carbaldehyde derivatives in excellent yields.

**Keywords:** tetrazolo[1,5-*a*] quinoline; ionic liquids; azidation; ring chain tautomerization.

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## **Conflicts of Interest**

The authors declare no conflict of interest.