

A Convenient Synthesis Of 2,6-Dichlorohomonicotinic Acid.

Chase Buchanan and Richard W. Fitch, Department of Chemistry and Physics, Indiana State University, 600 Chestnut Street, Terre Haute, IN 47809

In our synthetic efforts toward the alkaloid phantasmidine, we required a convenient source of the title compound. Herein, we describe a short synthesis of 2,6-dichlorohomonicotinic acid by direct allylation of 2,6-dichloropyridine with LDA/allyl chloride, followed by permanganate oxidation of the side chain [figure1]. Yields for the allylation are high, while permanganate oxidation required more adjustment. Successful conditions require the modest acidification of the mixture with acetic acid and cleanup by acid base workup. No chromatography is needed.

