

POTENTIAL OF 1,3,5–TRIS (DIETHYLAMINO)–1,3,5–TRIS (ETHYLAMINO) CYCLOTRIPHOSPHONITRILE AS BACTERICIDAL AGENT

H.K.Sharma¹ and Himanshu Sharma²

¹*Department of Chemistry, JNRM, Port Blair (Andaman and Nicobar Islands)*

²*Chemical Engineering Department, National Institute of Technology,
Warangal (A.P)*

¹*E-mail: himanshusharma014@gmail.com*

Abstract

1,3,5–tris (diethyl amino)–1,3,5–tris (ethyl amino) Cyclotriphosphonitrile was prepared by the reaction of 1,3,5-tris dichlorocyclotriphosphonitrile (PNC_l₂)₃ with ethylamine in ethanol solvent. The structure of the compound has been established on the basis of its analytical and IR spectral data. The compound has been screened for antibacterial activities. The compound was found to have excellent antibacterial activity against *Staphylococcus albus* and *Staphylococcus aureus* when compared with standard used (amoxicillin clavulanic acid).

Keywords: 1,3,5-Tris dichlorocyclotriphosphonitrile, Ethyl amine, Antibacterial activity.