

Synthesis, Properties and Dimerization Study of Isocyanic Acid

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Isocyanic Acid, Dimeric Isocyanic Acid

Isocyanic acid was prepared in pure form by reaction of KOCN or NaOCN with stearic or oxalic acid in good yield. Identification, characterization and investigation of the thermal stability of HNCO and evidence for a possible existence of “dicyanic acid” have been studied in gas phase, liquid and solid state by vibrational and NMR spectroscopy and mass spectrometry.