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### Synthesis and characterization of poly (vinyloxy -4-yl - amino) with Phenyl acetonitrile

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**Abstract:** A new synthesis of poly adipoyl chloride with vinyl alcohol under refluxed for 6 hr. to give poly (vinyloxy acid chloride) then the product reacted with N-methoxyphenylamino)-2-phenyl acetonitrile under refluxed for 6 hr. in presence of benzene at 61°C to give Poly N-vinyloxyphenylamino-2-phenyl acetonitrile. According to the obtained product the coordinate of N2- donor atoms in the compound. N-H group in the compounds was very effective and can enter many reactions. NMR identified the prepared polymer and FT-IR, Solubility and thermal stability were studied.

**Keyword:** poly aminonitrile, N-methoxyphenylamino)-2-phenyl acetonitrile.

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