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Applications using Adipic Acid

The majority of the 2.5 billion kg of **Adipic Acid** produced annually is used as a monomer for the production of nylon by a polycondensation reaction with hexamethylene diamine forming 6,6-nylon. Other applications include some Polyurethanes. Esters of **Adipic Acid**, such as DOA (Di-2-Ethylhexyl Adipate) are used as plasticizers for PolyVinyl Chloride (PVC) resins.

Adipic Acid has been incorporated into controlled-release tablets to obtain a pH-independent release for both weakly basic and weakly acidic drugs. It has also been incorporated into polymeric coatings of hydrophilic monolithic systems to modulate the pH, resulting in zero-order release of a hydrophilic drug.

In foods, small but significant amounts of **Adipic Acid** are used as a food ingredient as a flavorant and gelling aid. It is used in some calcium carbonate antacids to make them tart.