

Coproduction of 6-aminocapronitrile and hexamethylenediamine

Abstract

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A process for coproduction of 6-aminocapronitrile and hexamethylenediamine starting from adiponitrile comprises

- 10 (1) partially hydrogenating adiponitrile in the presence of a catalyst to obtain a mixture comprising 6-aminocapronitrile, hexamethylenediamine and adiponitrile,
- (2) removing 6-aminocapronitrile and hexamethylenediamine from the mixture,
- 15 (3) adding to the portion comprising essentially adiponitrile from 0.01 to 10% by weight of an acid, based on adiponitrile, or an acidic ion exchanger and removing the adiponitrile from the mixture, and
- 20 (4) recycling the adiponitrile into step (1).

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