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Abstract

5 **IMPROVED METHOD FOR SIMULTANEOUS PRODUCTION OF 6-
 AMINOCAPRONITRILE AND HEXAMETHYLENEDIAMINE**

- 10 a) hydrogenating adiponitrile in the presence of a catalyst
 comprising an element of the eighth transition group as
 catalytically active component, to obtain a mixture
 comprising 6-aminocapronitrile, hexamethylenediamine,
 adiponitrile and high boilers,
- 15 b) distillatively removing hexamethylenediamine from the mixture
 comprising 6-aminocapronitrile, hexamethylenediamine,
 adiponitrile and high boilers,
 and either
- 20 c1) distillatively removing 6-aminocapronitrile, and then
- d1) distillatively removing adiponitrile,
 or
- 25 c2) simultaneously distillatively removing 6-aminocapronitrile
 and adiponitrile into separate fractions
 is characterized by base of column temperatures below 185°C
 in steps d1) or c2).

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