

Recovery of hexamethylenediamine from mixtures comprising same

Abstract

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A process for recovering hexamethylenediamine (I) from a mixture (II) comprising

- (I) hexamethylenediamine,
- 10 (III) hexamethyleneimine,
- (IV) a compound selected from the group consisting of
2-aminomethylcyclopentylamine and 1,2-diaminocyclohexane,
- (V) an imine,
- (VI) adiponitrile and 6-aminocapronitrile

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comprises distilling

- (a) a mixture (II) to obtain
 - (a1) a low boiling fraction comprising essentially (III),
 - 20 (a2) a medium boiling fraction (VII) comprising (I), (IV) and (V), and
 - (a3) a high boiling fraction comprising (V) and (VI),
- (b) a mixture (VII) to obtain
 - 25 (b1) an overhead product comprising essentially (IV), and
 - (b2) a mixture (VIII) comprising (I) and (V) as bottom product, and
- (c) a mixture (VIII) to obtain
 - 30 (c1) (I) as overhead product, and
 - (c2) a bottom product comprising the essential portion of (V).

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