

ABSTRACT

A process is provided for preparing imino-
tris(dimethylamino)phosphorane at high purity and high yield
from aminotris(dimethylamino)phosphonium chloride. Amino-
tris(dimethylamino)phosphonium chloride is first reacted
5 with an aqueous solution of the hydroxide of an alkali metal
or alkaline earth metal in the presence of a solvent in
which the chloride and hydroxide of the alkali metal or
alkaline earth metal are sparingly soluble, whereby imino-
tris(dimethylamino)phosphorane is formed. After water is
10 dissolved off at a temperature of 70°C or lower from the
reaction mixture, solids are removed from the thus-
concentrated reaction mixture by solid-liquid separation.
The resultant mother liquor is then distilled to obtain
iminotris(dimethylamino)phosphorane.

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