

ABSTRACT

To provide a process for preparing phosphine oxides comprising reacting iminophosphoranes with phosphorus oxytrichloride by which highly purified phosphine oxides
5 can be obtained industrially in a higher yield.

Specifically, phosphine oxides are prepared in such a manner that iminophosphoranes are reacted with phosphorus oxytrichloride using an aprotic organic solvent with permittivity 2.2 or more at 20°C as a
10 solvent under special reaction conditions to give a liquid reaction product containing phosphine oxides and aminophosponium chlorides which are yielded as a by-product at the same time as the phosphine oxides, and the above described chlorides are removed from the above
15 described liquid reaction product by the solid-liquid separation process, and the solution having been subjected to the solid-liquid separation process is washed with water.

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