

ABSTRACT

PROCESS FOR THE HYDROCYANATION OF UNSATURATED COMPOUNDS

The present invention relates to a process for the hydrocyanation of unsaturated compounds to unsaturated mononitrile compounds or to dinitrile compounds.

It relates more particularly to a process for the manufacture of dinitriles by double hydrocyanation of diolefins, such as butadiene, comprising a recovery and separation of the catalytic system. The process for the manufacture of dinitriles of the invention by hydrocyanation of unsaturated compounds, comprising at least one stage of hydrocyanation in the presence of a catalytic system comprising an organometallic complex formed by one or more monodentate organophosphite ligands and one or more bidentate organophosphorus ligands and optionally a promoter of Lewis acid type, comprises at least one stage of separation by distillation of a reactant used in the process or of a compound formed by the reaction from a medium comprising the said catalytic system.