PROCESS FOR PRODUCING NITRILE COMPOUNDS FROM ETHYLENICALLY UNSATURATED COMPOUNDS

ABSTRACT

The present invention relates to a process for the hydrocyanation of ethylenically unsaturated organic compounds to give compounds comprising at least one nitrile function.

The present invention proposes a process for the hydrocyanation of a hydrocarbon-based compound comprising at least one ethylenic unsaturation, by reaction, in a liquid medium, with hydrogen cyanide in the presence of a catalyst comprising a metal element chosen from transition metals and an organophosphorus ligand, characterized in that the organophosphorus ligand is constituted of a mixture of at least one monodentate organophosphite compound and at least one monodentate organophosphine compound.

The present invention is in particular of use for the synthesis of adiponitrile from butadiene.

No Fig.