

Process for the manufacture of amines by hydrogenation of nitrile compounds

The present invention relates to a process for the manufacture of amine compounds by hydrogenation of nitrile compounds in the presence of a catalyst.

It relates more particularly to a process for the manufacture of diamines by continuous hydrogenation of dinitrile compounds in the presence of a catalyst based on a Raney metal and in the absence of alcoholic solvent. This process comprises withdrawing a portion of the catalyst present in the reaction medium. The portion of the catalyst withdrawn is subjected to a regeneration process in order to obtain a catalyst with a catalytic activity lower than that of a fresh catalyst but high. The regenerated catalyst is recycled to the reaction medium in conjunction with fresh catalyst, according to a predetermined ratio. The process of the invention makes it possible in particular to reduce the consumption of catalyst per tonne of amine produced.

No figure