

Process for preparing an amine

Abstract

- 5 A process for preparing an amine by reacting a primary or secondary alcohol, aldehyde and/or ketone with hydrogen and a nitrogen compound selected from the group of ammonia, primary and secondary amines, in the presence of a zirconium dioxide-, copper- and nickel-containing catalyst, wherein the catalytically active composition of the catalyst, before its reduction with hydrogen, comprises oxygen compounds of zirconium, of
10 copper, of nickel, in the range from 1.0 to 5.0% by weight of oxygen compounds of cobalt, calculated as CoO, and in the range from 0.2 to 5.0% by weight of oxygen compounds of vanadium, of niobium, of sulfur, of phosphorus, of gallium, of boron, of tungsten, of lead and/or of antimony, calculated in each case as V_2O_5 , Nb_2O_5 , H_2SO_4 , H_3PO_4 , Ga_2O_3 , B_2O_3 , WO_3 , PbO and Sb_2O_3 respectively, and also catalysts as defined
15 above.