

A B S T R A C T

The invention relates to a supported catalyst,
5 in which a metal of Group VIII of the periodic system is
immobilized on a carbon support, wherein the catalyst
comprises halogen atoms, the Group VIII metal and an
activated carbon support which support has a more
hydrophobic surface than normal activated carbon, and to
10 the use of such a catalyst in a carbonylation reaction of
an organic compound, preferably in the carbonylation
reaction of butadiene to pentenoic acid, a Nylon-
precursor.