

Process for preparing formic acid by reaction of carbon dioxide with hydrogen

Abstract

- 5 The invention relates to a process for preparing formic acid by reaction of carbon dioxide with hydrogen in a hydrogenation reactor in the presence of a transition metal complex as a catalyst comprising at least one element from group 8, 9 or 10 of the Periodic Table and at least one phosphine ligand with at least one organic radical having at least 13 carbon atoms, of a tertiary amine and of a polar solvent to form a
- 10 formic acid-amine adduct, which is subsequently dissociated thermally to formic acid and the corresponding tertiary amine.
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