

REACTOR AND METHOD FOR SYNTHESISING VINYL ACETATE IN THE GASEOUS PHASE

ABSTRACT

The invention relates to a synthesis reactor and to a method for producing vinyl acetate, in which gaseous ethylene and acetic acid, in addition to oxygen or gases containing oxygen, react catalytically. The inventive synthesis reactor is a wall reactor, in which the catalytic synthesis takes place in a plurality of reaction chambers, whose free flow cross-sections measure less than 2000 μm , preferably 1000 μm and whose indirectly cooled walls are coated with a palladium-gold catalyst.