

METHOD FOR PRODUCING ϵ -CAPROLACTAM

ABSTRACT OF THE DISCLOSURE

ϵ -Caprolactam is produced by the method comprising the
5 step of introducing a gas comprising cyclohexanone oxime into
a layer of solid catalyst particles through a plurality of
holes of a gas diffusion plate so that the solid catalyst
particles are brought into contact with the gas, while
fluidizing the catalyst layer, wherein the holes have an
10 average diameter of about 3 mm or smaller. In accordance with
the production method, ϵ -caprolactam can be produced from a
raw material gas comprising cyclohexanone oxime with a high
conversion of cyclohexanone oxime and a high selectivity to
 ϵ -caprolactam.