

## **ABSTRACT**

### **METHOD FOR ISOLATING N<sub>2</sub>O**

The present invention relates to a method for purifying a gas mixture G-0 containing nitrous oxide, comprising at least the bringing of the gas mixture G-0 into contact with a solvent mixture (I) containing at least 50% by weight of water with respect to the total solvent mixture (I), wherein the pH of the solvent mixture (I) ranges from 3.5 to 8.0, the desorption of a gas mixture G-1 from a composition (A), the bringing into contact of the gas mixture G-1 with a solvent mixture (II) containing at least 50% by weight of water with respect to the total solvent mixture (II), wherein the pH of the solvent mixture (II) ranges from 2.0 to 8.0, and the desorption of a gas mixture G-2 from a composition (B), wherein the pH in each case relates to a measurement with a glass electrode. The invention also relates to the use of gas mixtures obtained by the method according to the invention, as oxidizing agents for olefins.

(No Suitable Figure)