

Title (en)

Silver-based catalysts and their use in the preparation of oxide of olefins.

Title (de)

Katalysatoren auf der Basis von Silber und ihre Verwendung zur Herstellung von Olefinoxiden.

Title (fr)

Catalyseurs à base d'argent et leur utilisation pour la production d'oxyde d'oléfines.

Publication

**EP 0000460 A1 19790124 (FR)**

Application

**EP 78400048 A 19780703**

Priority

FR 7721118 A 19770708

Abstract (en)

1. Catalysts based on silver supported on porous artificial graphite or on porous graphite-containing materials, the catalysts being intended for the vapour phase synthesis of epoxides by reaction of an ethylenic hydrocarbon with oxygen or with gaseous mixtures containing oxygen, characterised in that the graphite-type supports have : a specific surface area of less than  $10 \text{ m}^2/\text{g}$ , a particle size of  $50 \mu\text{m}$  to  $10 \text{ mm}$ , a total porosity volume of between  $0.1$  and  $0.4 \text{ cm}^3/\text{g}$ , and a porosity distribution which is such that the pores of diameter less than  $6.6 \mu\text{m}$  represent at most 60% of the total porosity volume if the particle size of the support is greater than  $0.7 \text{ mm}$ , and at most 90% of the total porosity volume if the particle size of the support is less than or equal to  $0.7 \text{ mm}$ .

Abstract (fr)

Catalyseurs à base d'argent pour la synthèse en phase vapeur des époxydes par réaction d'oxygène, ou de mélange gazeux en contenant, sur un hydrocarbure éthylénique caractérisé par l'emploi comme support de graphites artificiels poreux, ou de matériaux graphités poreux, présentant une surface spécifique inférieur à  $10 \text{ m}^2/\text{g}$ , une granulométrie de  $50 \text{ microns}$  à  $10 \text{ mm}$ , un volume total de porosité compris entre  $0,1$  et  $0,4 \text{ cm}^3/\text{g}$ . Procédé de préparation d'oxyde d'éthylène par époxydation utilisant ces catalyseurs.

IPC 1-7

**B01J 23/50**; **C07D 301/10**

IPC 8 full level

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Citation (search report)

US 3899445 A 19750812 - KAJIMOTO TSUNESUKE, et al

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