

Title (en)

PROCESS FOR MAKING PROPYLENE AND ETHYLENE

Title (de)

VERFAHREN ZUR HERSTELLUNG VON PROPYLEN UND ETHYLEN

Title (fr)

PROCEDE DE PREPARATION DE PROPYLENE ET D'ETHYLENE

Publication

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Application

EP 99954851 A 19991012

Priority

- US 9923695 W 19991012
- US 18586598 A 19981104

Abstract (en)

[origin: WO0026163A1] Propylene and ethylene are made by heating a mixture of C4 and/or C5 olefins with a zeolite catalyst that has channels large enough to admit the C4 and C5 olefins and large enough to allow propylene and ethylene to diffuse out, but small enough to retard diffusion of dimerized products from the channels and small enough to minimize formation of hydrocarbon coke precursors within the channels. The catalyst has a pore diameter greater than 3.5 ANGSTROM and one-dimensional, non-interconnecting channels having a pore size index within the range of 14 to 28. Also valuable are zeolite catalysts that have one or more interconnecting channels, including (1) a primary channel that has a pore diameter greater than 3.5 ANGSTROM and a pore size index within the range of 14 to 28, and (2) a secondary channel interconnected therewith that has a pore size index less than 20.

IPC 1-7

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