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PATENT

INSTITUT FRANÇAIS DU PÉTROLE

PROCESS FOR SEPARATING PARAXYLENE COMPRISING AT LEAST
TWO CRYSTALLIZATION STAGES AT HIGH TEMPERATURE

ABSTRACT

Process for producing paraxylene of very high purity from a charge containing a mixture of aromatic hydrocarbons having 7 to carbon atoms in which at least a portion of the charge is made to circulate in a zone suited to enrich a first fraction of paraxylene and at least a portion of said first fraction is purified by at least one high-temperature crystallization in at least one crystallization zone, the process being characterized in that said first paraxylene-enriched fraction is crystallized in a crystallization zone comprising at least two crystallization stages (50, 70) at high temperature, and advantageously between +10 and -25°C.

The paraxylene enriching zone can be a crystallisation at very low temperature, a selective adsorption or a toluene disproportionation zone.

Figure 7 to be published.