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(54) Title: PROCESS FOR PRODUCING SEC-BUTYL BENZENE

(57) Abstract: A process for producing sec-butylbenzene comprises contacting a feed comprising benzene and ethylene under alkylation conditions with catalyst comprising (i) a molecular sieve having an X-ray diffraction pattern including d-spacing maxima at 12.4 ± 0.25 , 6.9 ± 0.15 , 3.57 ± 0.07 and 3.42 ± 0.07 Angstrom and (ii) at least one metal selected from Group 10 of the Periodic Table of Elements to produce an alkylation effluent comprising sec-butylbenzene.

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