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(54) Title: TRANSALKYLATION PROCESS AND CATALYST COMPOSITION USED THEREIN

(57) Abstract: The present disclosure relates to a process for producing a mono-alkylated aromatic compound, such as, for example, ethylbenzene or cumene, in which an alkylatable aromatic compound stream, such as, for example, benzene, and an alkylation agent stream, such as, for example, poly-ethylbenzene or poly-isopropylbenzene, are contacted in the presence of a trans alkylation catalyst and under at least partial liquid phase transalkylation conditions. The trans alkylation catalyst comprises a zeolite having a framework structure selected from the group consisting of FAU, BEA*, MOR, MWW and mixtures thereof. The zeolite has a silica- alumina molar ratio in a range of 10 to 15. The transalkylation catalyst composition has an external surface area/volume ratio in the range of 30 cm¹ to 85 cm¹.



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