

Title (en)  
PROCESS FOR ION EXCHANGE ON ZEOLITES

Title (de)  
VERFAHREN ZUM IONENAUSTAUSCH MIT ZEOLITHEN

Title (fr)  
PROCÉDÉ POUR L'ÉCHANGE D'IONS SUR DES ZÉOLITES

Publication  
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Application  
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Abstract (en)  
[origin: WO2013072809A1] The present invention relates to an improved process for exchanging alkali metal or alkaline earth metal ions in zeolites for ammonium ions. For this exchange, aqueous solutions of ammonium salts, for example ammonium sulfate, ammonium nitrate or ammonium chloride, are currently being used. The resulting "ammonium zeolites" are calcined to convert them, with release of ammonia, to the H form of the zeolites suitable as a catalyst. It is proposed in accordance with the invention to use ammonium carbonate instead of the ammonium compounds mentioned. Since excess ammonium carbonate, in contrast to the nitrates, sulfates or chlorides, can be recycled in the form of carbon dioxide and ammonia, the amount of salt which has to be discharged is lowered significantly.

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