Lithium chloride sodium carbonate reaction

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a process for producing lithium carbonate comprising the simultaneous steps of adding an aqueous lithium chloride composition and an aqueous sodium carbonate composition to a reaction...

Sodium Carbonate, known as soda ash, is a very important industrial chemical. It is mainly obtained by a method named Solvay process by the chemical reaction of limestone (CaCO3) and sodium chloride (NaCl).

Lithium carbonate precipitation from a Li 2 SO 4 solution in a stirred crystallizer in semi-batch processes was investigated and compared using a heterogeneous CO 2 reaction and homogeneous Na 2 CO 3 reaction. Nucleation and crystal growth were successfully monitored by an inline Particle Track based on the focused beam reflectance measurement ...

The main process to obtain lithium carbonate from brines is based on the reaction of lithium chloride with sodium carbonate. The present work seeks to find the most favorable conditions to produce lithium carbonate from industrial lithium chloride brines and sodium carbonate solutions.

An extensive experimental investigation on lithium carbonate precipitation from moderately concentrated Li-rich brine was presented, with a focus on recovery and solid purity. Li + was precipitated via homogenous and heterogeneous crystallization routes using Na 2 CO 3 and a gas (CO 2)-liquid (NaOH-LiCl) system.

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