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一种 2, 4-二氯苯的生产方法

抽象的

本发明以对氯甲苯，氯气为原料，经催化氯化合成 2, 4-二氯甲苯，含合成，碱洗，精馏步骤，合成反应的温度在 35℃-45℃之间，碱洗步骤中进行洗涤合成反应产物的碱洗剂为含结晶水碳酸钠晶体；向对氯甲苯中同时通入氯气的进气管至少两根的。本发明适当降低了反应温度，有效地控制了副反应的发生，提高了 2, 4-二氯甲苯的收率；改变了氯气输入方式，改善了反应时的氯气分布状况，缩短了反应时间，2, 4-二氯氯化物反应收率达到 75% 以上，氯气可到达 90% 以上，采用结晶碳酸钠进行碱洗，使碱洗后的氯化反应产物能出现明显的分层，有利于反应产物的分离。

The invention discloses a production method for 2, 4-dichlorobenzene

In the abstract

The invention takes p-chlorotoluene and chlorine gas as raw materials to synthesize 2, 4-dichlorotoluene through catalytic chlorination, including steps of synthesis, alkali washing and rectification. The temperature of synthesis reaction is between 35°C and 45°C. The alkali lotion of washing and synthesis reaction product in alkali washing step is sodium carbonate crystal containing crystal water. At least two air intakes into which chlorine gas is simultaneously fed to para-chlorotoluene. The invention appropriately reduces the reaction temperature, effectively controls the occurrence of side reactions, and improves the yield of 2, 4-dichlorotoluene; Changed the chlorine gas input mode, improve the reaction of chlorine gas distribution, shortened the reaction time, 2, 4 - dichloro chloride reaction yield of above 75%, chlorine can be reached more than 90%, the crystallization of sodium carbonate in alkaline cleaning, make after caustic washing the chlorination reaction product can appear obvious stratification, is conducive to the separation of reaction products.



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