

Title (en)
PROCESS FOR PRODUCING N-METHYL SUCCINIMIDE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON N-METHYLSUCCINIMID

Title (fr)
PROCÉDÉ DE PRODUCTION DE N-MÉTHYLE SUCCINIMIDE

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Application
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Abstract (en)
[origin: WO2004058708A1] The invention includes methods of processing an initial di-carbonyl compound by conversion to a cyclic compound. The cyclic compound is reacted with an alkylating agent to form a derivative having an alkylated ring nitrogen. The invention encompasses a method of producing an N-alkyl product. Ammonia content of a solution is adjusted to produce a ratio of ammonia to di-carboxylate compound of from about 1:1 to about 1.5:1. An alkylating agent is added and the initial compound is alkylated and cyclized. The invention includes methods of making N-methyl pyrrolidinone (NMP). Aqueous ammonia and succinate is introduced into a vessel and ammonia is adjusted to provide a ratio of ammonia to succinate of less than 2:1. A methylating agent is reacted with succinate at a temperature of from greater than 100 °C to about 400 °C to produce N-methyl succinimide which is purified and hydrogenated to form NMP.

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