

Title (en)

IMPROVED METHOD FOR PRODUCING SODIUM CHLORIDE-FREE AMMONIUM NITRILES

Title (de)

VERBESSERTES VERFAHREN ZUR HERSTELLUNG VON NATRIUMCHLORIDFREIEN AMMONIUMNITRILEN

Title (fr)

PROCEDE AMELIORE DE PRODUCTION DE NITRILES D'AMMONIUM EXEMPTS DE CHLORURE DE SODIUM

Publication

EP 2001834 A1 20081217 (DE)

Application

EP 07723310 A 20070316

Priority

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Abstract (en)

[origin: DE102006013666A1] Preparation of an ammonium nitrile compound (I) comprises reacting a tertiary amine compound (II) with chloroacetonitrile in an organic solvent, and subsequently adding an acid compound (III). Preparation of an ammonium nitrile compound (I) of formula $(R^1)(R^2)N^+(R^3)(CH_2CN)Z^-$ comprises reacting a tertiary amine compound (II) of formula $NR^1R^2R^3$ with chloroacetonitrile in an organic solvent, and subsequently adding an acid compound (III) of formula (HZ). R^1 : 1-24C-alkyl, 2-24C-alkenyl, 1-24C-alkyl ether, CH₂CN or an ammonium nitrile compound of formula $(NC-CH_2)(R^2)N^+(R^3)-(CH_2)_nZ^-$; R^2 : 1-8C-alkyl or 1-4C-hydroxy alkyl; n: 1-4; Z^- : counter ion of formula PF₆-, ClO₄-, NO₃-, a perfluorinated alkane sulfonate or perfluorinated alkane carboxylate; R: a group, which is optionally substituted by 4-20C alkyl, 4-20C alkylether, 4-20C alkylene or 6-20C-(alkyl)phenyl; and R^1 : 1-3C-alkyl.

IPC 8 full level

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CPC (source: EP US)

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