

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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- DE 102006013666 A 20060324

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, CH<sub>2</sub>CN 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 PF<sub>6</sub>-, ClO<sub>4</sub>-, NO<sub>3</sub>-, 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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