

Title (en)

METHOD FOR SYNTHESIZING HYDROCYANIC ACID FROM FORMAMIDE - CATALYST

Title (de)

VERFAHREN ZUR BLAUSÄURESYNTHESE AUS FORMAMID - KATALYSATOR

Title (fr)

PROCÉDÉ DE SYNTHÈSE D'ACIDE CYANHYDRIQUE À PARTIR DE FORMAMIDE EN PRÉSENCE D'UN CATALYSEUR

Publication

**EP 2984037 A1 20160217 (DE)**

Application

**EP 14718544 A 20140409**

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Abstract (en)

[origin: WO2014166975A1] The invention relates to a method for producing hydrocyanic acid by the thermolysis of gaseous formamide in a reactor in the presence of a catalyst, wherein a) the catalyst (i) is an aluminum oxide catalyst, containing - 90 to 100 wt%, preferably 99 to 100 wt%, of aluminum oxide as component A, - 0 to 10 wt%, preferably 0 to 1 wt%, of silicon dioxide as component B, and - 0 to at most 0.1 wt% of iron or compounds containing iron as component C, wherein the total sum of components A, B, and C is 100 wt%, and (ii) has a BET surface area, measured as per DIN ISO 9277 : 2003-05, of < 1 m<sup>2</sup>/g, and (iii) is tempered at temperatures of > 1400 °C for 1 to 30 h, preferably ≥ 1500 °C for 1 to 30 h, especially preferably at 1500 °C to 1800 °C for 2 to 10 h, and b) the reactor has an inner surface that is inert with respect to the thermolysis of formamide; and use of the catalyst in a method for producing hydrocyanic acid by the thermolysis of gaseous formamide in a reactor that has an inner surface that is inert with respect to the thermolysis of formamide.

IPC 8 full level

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Citation (search report)

See references of WO 2014166975A1

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