

Title (en)
PROCESS FOR PREPARING TRICHLOROSILANE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON TRICHLORSILAN

Title (fr)
PROCÉDÉ DE PRÉPARATION DE TRICHLOROSILANE

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Application
EP 11775752 A 20111013

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Abstract (en)
[origin: WO2012062526A1] The present invention relates to a process for preparing trichlorosilane and optionally, if required, HCDS and OCTS, by a) in a first step, allowing silicon tetrachloride and silicon to react at a temperature of > 800 to 1450 °C, b) in a step two, cooling the product stream (PS) thus obtained from step one to obtain a product stream (PG2), c) optionally, in a step three, removing STC and HCDS from the product stream (PG2) to obtain, as a residue or bottom product, a product mixture (PG3), d) optionally, in a step four, removing OCTS from the product stream PG3 from step three, to obtain, as a residue or bottom product, a product mixture (PG4), e) in a step five, reacting the product stream (PG2) originating from step two or the product mixture (PG3) originating from step three or the product mixture (PG4) originating from step four, or a mixture of product streams PG2 and PG3 or a mixture of product streams PG2 and PG4 with hydrogen chloride to obtain a product stream (PHS), and f) in a subsequent step six, removing trichlorosilane from a product stream (PHS) thus obtained, and discharging the remaining STC-containing bottoms or recycling them as a reactant component into step one of the process.

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