

Abstract

[Problem to be solved] Provided is a method that enables effective industrial use of an exhaust gas containing hydrogen to be discharged during production of trichlorosilane.

[Solution] Provided is a method for producing trichlorosilane, the method comprising: reacting metallic silicon and tetrachlorosilane with a mixed gas containing hydrogen to generate trichlorosilane. The mixed gas containing hydrogen contains 1 to 500 molar ppm of hydrogen chloride and 100 to 10000 molar ppm of silane hydride, and the mixed gas is heated at 100°C to 450°C and then reacted.

[No figure to accompany]