

The invention relates to the technology of obtaining chlorine-free mineral fertilizer and may be used in potassium industry. A method for producing chlorine-free potassium fertilizers comprises interaction of potassium-containing raw stock with ammonium sulphate and subsequent sublimation of ammonium chloride by indirect heating the mixture. The raw stock ground to the particles size of no more than 5 mm is used. The sublimated vapor of ammonium chloride is successively treated with lime milk and sulphuric acid with obtaining of calcium chloride and ammonium sulphate solution, which is returned to the process.