

The invention relates to means of analytical chemistry for determination of concentration of silicium in water solutions by method of spectroscopy of diffusive reflection. Method for determination of silicium in water medium is in fact that to solution of not reduced silicium-molybdenum heteropolyacid one adds cation surface-active substance, obtained suspension is filtered, filter is washed with water, it is treated with acidulous solution of ascorbic acid, concentration obtained is soaked, washed with water. Concentration of silicium is determined through measurement of intensity of diffusive reflection of concentrate reduced at soaking. The invention increases sensitivity of determination of silicium I water solutions.