



Research Papers from the Kent Chemical Laboratory of Yale University, Vol. 2 (Classic Reprint) (Paperback)

By Frank Austin Gooch

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Research Papers From the Kent Chemical Laboratory of Yale University, Vol. 2 It was known to Berzelius that hydriodic acid and tellurous acid interact with the formation of tellurium tetraiodide, which is converted by water into an oxyiodide and by excess of an alkaline iodide into a soluble double salt. Wheeler has shown that the double salt which is formed when tellurous iodide is boiled in a strong solution of potassium iodide in dilute hydriodic acid is definite and has the constitution represented by the formula $2KI \cdot TeI_4 \cdot 2H_2O$. We have observed, however, that when potassium iodide is added to a cold solution of tellurous acid containing at least one-fourth of its volume of strong sulphuric acid, no tendency toward the formation of a double salt becomes apparent until the potassium iodide amounts to more than enough to convert all the tellurous acid present into the tetraiodide according to the equation, $H_2TeO_3 + 4H_2SO_4 + 4KI = TeI_4 + 4KHSO_4 + 3H_2O$. The tellurium tetraiodide which is thus formed is extremely insoluble in sulphuric acid...



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