

THE AMERICAN CHEMICAL SOCIETY.

XVI.—PROCEEDINGS.

Regular Meeting, April 1, 1880.

Thirteen members present. Dr. E. R. SQUIBB in the chair.

The minutes of the previous meeting were read and approved.

In the absence of a quorum the regular business was deferred.

The following papers were read.

1. "Miscellaneous Chemical Notes," by T. T. MORRELL.
2. "On Peroxide of Hydrogen and Ozone" (second paper), by Prof. A. R. LEEDS.

After which the meeting adjourned.

ARTHUR H. ELLIOTT,

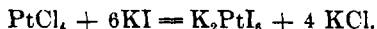
Recording Secretary.

XVII.—MISCELLANEOUS CHEMICAL NOTES.

By T. T. MORRELL.

I. ESTIMATION OF SMALL QUANTITIES OF POTASH WITH PLATINIC CHLORIDE.

When an aqueous solution of platinic chloride is mixed with potassium iodide, there is produced a peculiar red coloration of remarkable intensity, according to the reaction :



Advantage may be taken of this reaction to estimate, colorimetrically, minute quantities of platinum, providing no other substance, which produces with the iodide a colored solution, is present. If a solution of platinic chloride of known strength is kept on hand, a standard for measuring the color may be formed by mixing a measured quantity with potassium iodide.

An excess of pure iodide appears to have no effect upon the intensity of the color. However, it is best to use about the same quantity in the estimation and in the formation of the standard color, allowing five or six minutes to develop the maximum tint, after which the solutions may be suitably diluted. It is well, also, to keep the cylinders in which the comparison of color is made, stoppered, to exclude the air as much as possible.