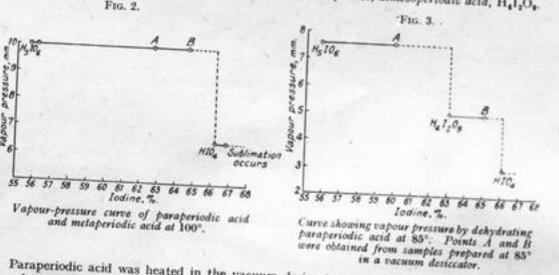
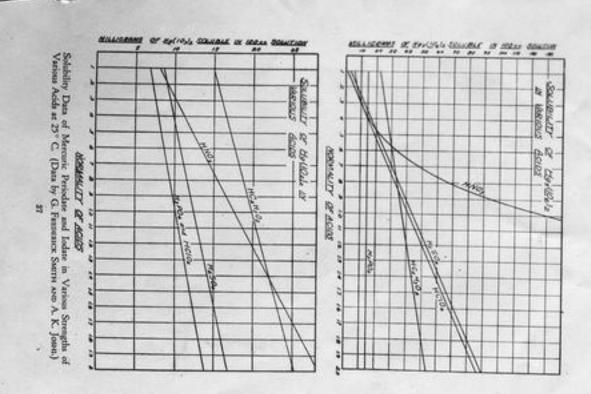
these two acids, and also the points obtained with two products made by partially dehydrating the para-acid at 100° in a vacuum desiccator. The composition of the residue in the bottle B Dimesoperiodic Acid, M.I.O. Technology method (3) of Part I.

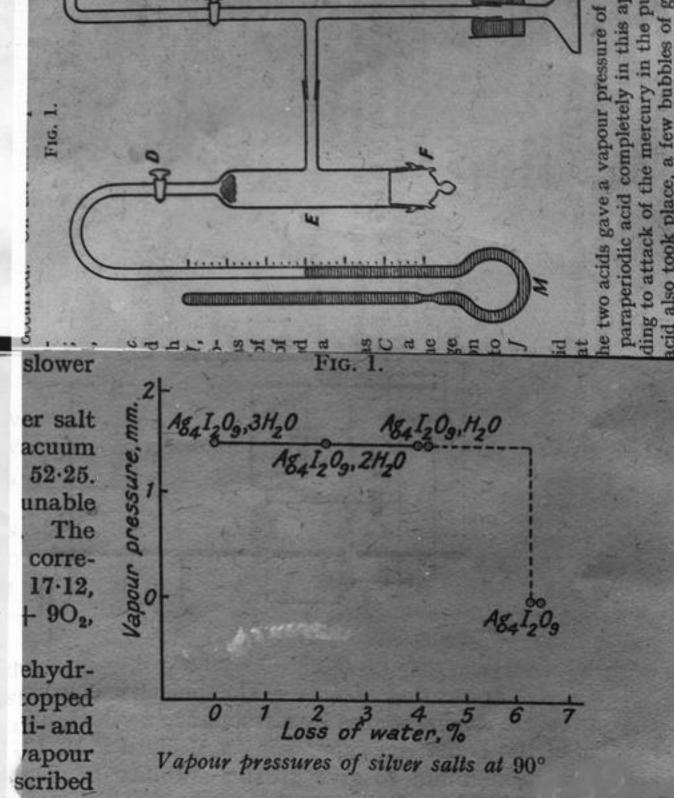
Dimesoperiodic Acid, H<sub>4</sub>I<sub>2</sub>O<sub>5</sub>.—Lamb (loc. cit.) attempted to prepare mesoperiodic acid. H<sub>2</sub>IO<sub>5</sub>, by dehydrating paraperiodic acid at different temperatures and pressures. In all experiments, he found that the point corresponding to the hydrate H<sub>2</sub>IO<sub>5</sub> was passed without the least indication of the formation of a definite compound. His observations have been confirmed in so far as the meso-acid is concerned, but we have found that a definite point is reached which corresponds to the formation of another hydrate, dimesoperiodic acid, H<sub>4</sub>I<sub>2</sub>O<sub>5</sub>.



Paraperiodic acid was heated in the vacuum desiccator at 80° for 15—45 hours and the loss of water determined, since no sublimation occurred at this temperature.

hours. Wt. of H<sub>4</sub>IO<sub>4</sub>, g. Wt. of H<sub>4</sub>I<sub>2</sub>O<sub>8</sub> Loss of wt. due to formed, g. H<sub>2</sub>O<sub>.</sub> g.





10 mm