REVIEWS

The object of this department of the Journal is to issue, as promptly as possible, critical digests of all Journal articles that bear upon any phase of Physical Chemistry.

General

The atomic weight of nitrogen. *J. Dean. Jour. Chem. Soc.* 77, 117 (1900). — The ratio of silver to cyanogen in silver cyanide is found to be 107.93 : 26.032. Taking 12.001 for carbon, this would give 14.031 for nitrogen. The author titrated excess of silver with standard bromide solution instead of taking the mean of the end-points reached from the two opposite sides.

W. D. B.

On a new radio-active element, actinium. *A. Debierne. Comptes rendus*, 130, 906 (1900). — The recognizable base is thorium, but the author hopes to be able to show that thorium is really not radio-active, and that it is contaminated by the new element, actinium.

W. D. B.

On the heat of combustion of some very volatile liquids. *M. Berthelot and Delépine. Comptes rendus*, 130, 1045 (1900). — Thermochemical data.

The heats of combustion and of formation of compounds containing iodine. *M. Berthelot. Comptes rendus*, 130, 1094 (1900). — Thermochemical data.

Action of hydrogen peroxide on barium hydroxide. *de Forcrand. Comptes rendus*, 130, 716, 778, 834 (1900). — Thermochemical data.

Heat of formation of anhydrous and hydrated strontium peroxide. *de Forcrand. Comptes rendus*, 130, 1017 (1900). — Thermochemical data.

Heat of neutralization of hydrogen peroxide by lime. *de Forcrand. Comptes rendus*, 130, 1250, 1308 (1900). — Thermochemical data.

A quartz thermometer for high temperatures. *A. Dufour. Comptes rendus*, 130, 775 (1900). — The author has made a quartz thermometer with tin as registering liquid.

W. D. B.

A thermocalorimeter. *G. Massol. Comptes rendus*, 130, 1126 (1900). — The author has modified the Regnault instrument, substituting sulphuric acid for alcohol, and introducing a reservoir at the top similar to that in the Walferdin and Beckmann thermometers.

W. D. B.

One-Component Systems

The maximum pressure of naphthalene vapor. *R. W. Allen. Jour. Chem.*