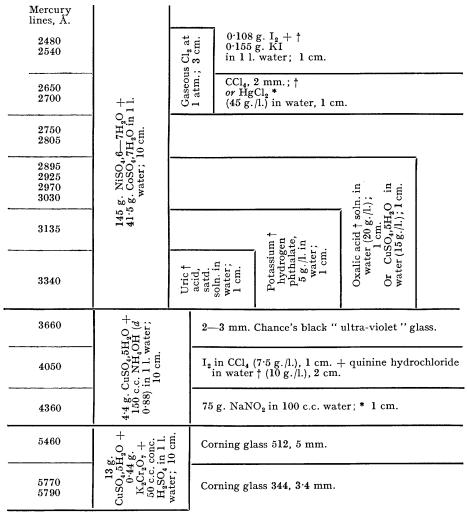
## 15. Light Filters for the Mercury Lamp.

By E. J. Bowen.

The following filters are an improvement on a previous list (Bowen, J., 1932, 2236) and have been found useful for photochemical work with the mercury lamp, from which a concentrated beam of light may be obtained by placing the filter of col. 2 of the table in a round flask (glass for the visible region and the 3660 Å. line, silica for the ultra-violet) of 10 cm. diameter (and 500 c.c. capacity) very near the lamp, followed by the other filters, the reaction cell being placed behind a diaphragm about 24 cm. from the lamp.

The nickel-cobalt sulphate filter, which transmits the ultra-violet while practically cutting off all the visible, infra-red, and the 3660 Å. line, is similar to that recommended by Bäckström (*Naturwiss.*, 1933, 13, 251), and must be particularly free from traces of iron salts. Salts of "Analar" standard (B.D.H. and Messrs. Hopkin and Williams, Ltd.) have been found suitable.



<sup>\*</sup> Renew occasionally.

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<sup>†</sup> Renew frequently.