

DATA FOR CURVE XII.

"Control Reaction."

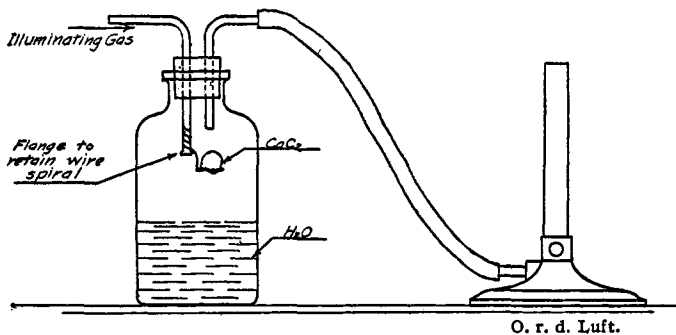
0.0243 *N* Sucrose.

Time in min.	Conc. of Na_2SO_4 in millimols per liter.	Time in min.	Conc. of Na_2SO_4 in millimols per liter.
23.75	71.7	16.25	97.0
30.5	66.3	38.5	83.2
50.25	50.6	57.5	71.4
68.0	37.4	79.0	59.2
89.0	26.9	100.75	45.3
111.5	11.6	122.0	38.1
135.0	3.6	143.25	29.9
		154.0	25.5
		163.25	21.8

MADISON, WISCONSIN.

NOTES.

Laboratory Experiment—The Enrichment of Illuminating Gas.—A trap, consisting of a wide-mouth bottle, is introduced between the gas outlet and an ordinary Bunsen burner. A copper wire is wrapped around one of the tubes which project through the stopper and serves to support a piece of calcium carbide.



While the carbide is in position the gas is lighted and the air vents of the burner adjusted so the flame is barely non-luminous. The carbide is then shaken off into the water where acetylene is produced. The flame becomes quite luminous and remains so for a convenient length of time.

The apparatus may be easily and quickly cleaned for a repetition of the experiment.

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A New Form of Conductivity Cell for Electro-titration.—The increasingly frequent use of the electro-titrametric process for determining the end points of reactions makes a special apparatus for this operation desirable.