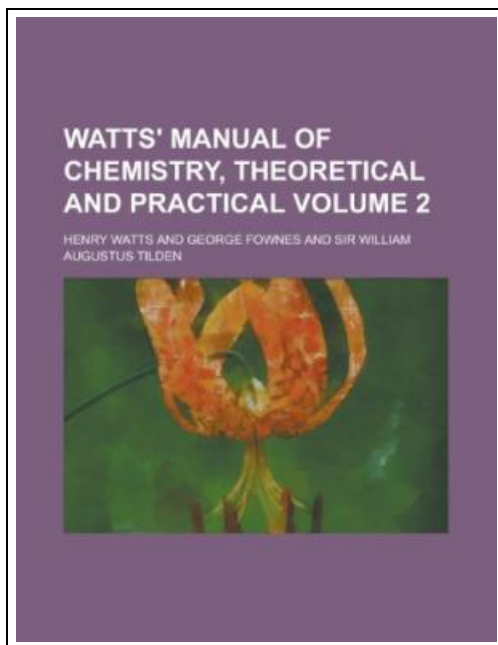


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(Lisa Jacobs)

WATTS MANUAL OF CHEMISTRY, THEORETICAL AND PRACTICAL VOLUME 2



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Rarebooksclub.com, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1886 edition. Excerpt: .to be presently explained. They are all monobasic, as already observed, except carbonic acid, which is bibasic, its two hydroxyl groups being similarly related to the group CO. This acid will be considered by itself. The normal and iso-lactic acids are formed by the following general processes: 1. By slow oxidation of the glycols in contact with platinum black, or by the action of dilute nitric acid; e.g.: $\text{HHgS} + \text{H} + \text{B.CCHH}$ 0-Propylene glycol. $\text{jS-Lactic acid. HO.HCgH, OH} + \text{O}_2 = \text{H}_2\text{O} + \text{HO.HCgg5H}$ a-Propylene glycol. a-Lactic acid. 2. By the action of moist silver oxide on the monochlorinated or monobrominated derivatives of the fatty acids (p. 279); e.g.: $\text{CH}_2\text{CLC}_2\text{OH} + \text{AgOH} = \text{AgCl} + \text{CH}_2\text{OH.C}_2\text{OH}$. Chloracetic acid. Glycollic acid. 3. Prom the glycollic chlorhydrins (p. 172), by converting them into cyanides by the action of potassium cyanide, and boiling the resulting cyanides with alkalis or acids: $\text{H}_3\text{CCH}_2\text{OH} + \text{CNK KC1} + \text{HH.OH}$ Chlorhydrin. Cyanhydrin. $\text{H}_2\text{CH}_2\text{OH} + 2\text{H}_2 = \text{NH}_3 + \text{H}_2\text{CCHOH}$ Cyanhydrin. /3-Lactic acid. 4. By heating an aldehyde or a ketone with hydrocyanic and hydrochloric acid, whereby a cyanhydrin is probably produced temporarily, but is immediately decomposed as above: $\text{CH}_3.\text{CHO} + \text{CNH} = \text{CH}_3.\text{CH Aldeh}$ instead of the latter compound previously prepared. The other tertiary lactic acids are prepared in a similar manner. Reactions.--1. All the acids of the series, Cqhoj, are reduced by hydriodic acid to the corresponding monohydric acids, CnH2nO2, e.g., lactic to propionic acid: $\text{C}_3\text{H}_5\text{O}_3 + 2\text{HI} \dots$



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