



## Organic Chemistry for Advanced Students Volume 2 (Paperback)

By Julius Berend Cohen

Rarebooksclub.com, United States, 2012. 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 download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1913 Excerpt: .stages and is therefore a composite reaction; cf. Orton and King, Trans. Chem. Soc., 1911, 89, 1369; also Orton and Jones, Trans. Chem. Soc., 1909, 95, 1456.  $\text{CH}_3\text{CO}_2\text{C}_2\text{H}_5 + \text{NaOH} = \text{CH}_3\text{CO}_2\text{Na} + \text{C}_2\text{H}_5\text{OH}$  The saponification proceeds at a rate which can be conveniently measured at temperatures between 0 and 25 if dilute solutions are employed. If the original solution contains a grm.-mols. (mole) of ester and o mols of hydroxide per unit volume, and if x mols of ester have been saponified after time t, the concentrations of the reacting substances at this moment will be a-x and b-x respectively. According to the mass law, the speed of the change will be given by  $\frac{dx}{dt} = k_2(a-x)(b-x)$  and this on integration becomes,  $\frac{1}{b(a-x)} \ln \frac{b(a-x)}{a(b-x)}$  In the following table are given the data obtained by Reicher for the saponification of...



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