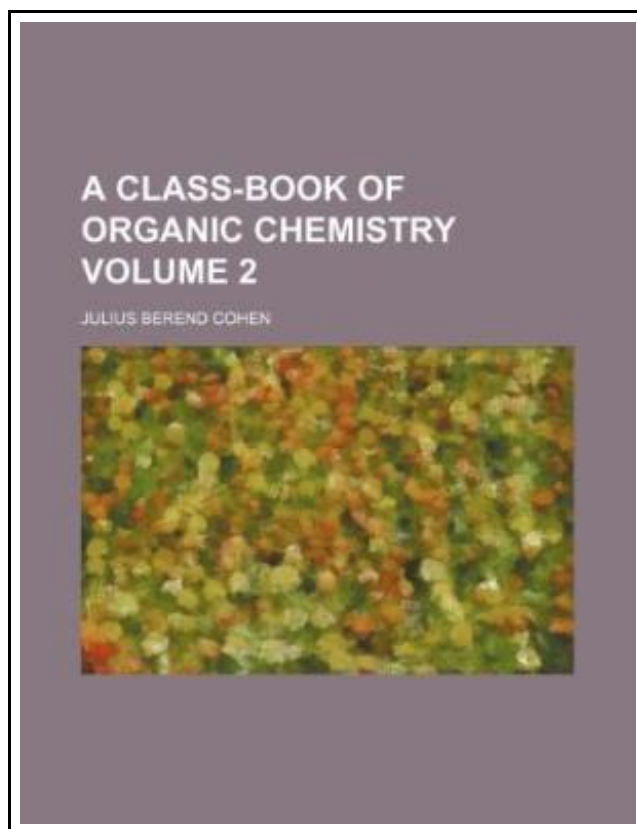


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Rarebooksclub.com, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1919 Excerpt: .uric acid is secreted during starvation, a portion must be derived from the metabolism of the tissues, that is, from the nucleo-proteins of the disintegrated cells, and is therefore independent of the food supply. A third source of uric acid is probably the product of normal cell metabolism of the tissues; for hypoxanthine is always present with creatine and lactic acid in the juice of muscle, and is converted by oxidation into uric acid. The synthesis of the purine bases within the organism is still involved in obscurity. That the living cell can effect this synthesis is proved by the presence of nucleo-proteins in young animals from food containing no purine derivatives. CHAPTER VI THE PROTEINS The general properties of the proteins and their reactions have been described in Vol. I, p. 235. In the present chapter it is proposed to consider in greater detail the nature of their hydrolytic products and their possible structure. Products of Protein hydrolysis.--Hydrolysis may be effected by boiling with mineral acids (hydrochloric or sulphuric acid), or alkalis, or by the action of certain enzymes such as pepsin, trypsin, and erepsin (p. 102). The products are a variety of amino-acids, which are classified as follows: Monobasic Monoamino-acids. Glycine = aminoacetic acid,  $(\text{NH}_2)\text{CH}_2.\text{COOH}$ . Alanine = n-aminopropionic acid,  $\text{CH}_3.\text{CH}(\text{NH}_2).\text{COOH}$ .  $\text{CH}_3\text{X}$  Valine = u-aminoisovaleric acid,  $/\text{CH}.\text{CH}(\text{NH}_2).\text{COOH}$ .  $\text{CH}/$  Leucine = n-aminoisobutyl acetic acid,  $\text{CH}_3\text{y}$  Oxyproline = hydroxypyrrolidine carboxylic acid,  $\text{HaHC CH}_2 \text{H-cjch.cooh NH}$  Histidine = a-amino-/3-iminazole propionic acid,  $\text{Hc=, c.ch}_2.\text{ch}(\text{nh}_2).\text{cooh}$  Hnmn CH Tryptophane = indole-a-aminopropionic...



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