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## CHEMISTRY OF THE ALBUMENS TEN LECTURES DELIVERED IN THE MICHAELMAS TERM, 1904, IN THE PHYSIOLOGICAL DEPARTMENT OF UNIVERSITY COLLEGE, LONDON



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 56 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.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. 1906 Excerpt: . . . converted into xanthine. (b) By the action of hydriodic acid at 0. This yields diiodopurine, which on hydrolysis with hydrochloric acid gives xanthine. Theobromine is dimethylxanthine (3. 7). Paraxanthine (from urine) is dimethylxanthine (1. 7). Theophylline is dimethylxanthine (1. 3). Caffeine is trimethylxanthine (1. 3. 7). Hypoxanthine. --This body is 6-oxypurine, with the formula This can be obtained from trichloropurine also. The latter on treatment with alkali under suitable conditions, yields 6-oxy2. 8dichloropurine, from which, on replacement of chlorine atoms by hydrogen, hypoxanthine is obtained. Furthermore, hypoxanthine can be prepared from adenine by means of nitrous acid. Adenine. --Adenine is 6aminopurine--The formulae of these bodies were determined in the course of the orientation researches on the chloro-and chloroxypurine-derivatives. This body has been obtained from uric acid by two methods. The simplest is the following. Trichloropurine, on treatment under certain conditions with ammonia, yields 6aminodichloropurine, which on reduction yields adenine. The formula of this body is also determined, from the fact that with nitrous acid it is readily converted into hypoxanthine--HN--CO HC C--NHX N2 H20 II II H N--C--N S On treatment with chlorine in hydrochloric acid solution it readily yields guanidine--CNH nh2 There is therefore no doubt as to the position of the aminogroup in this body. Furthermore, it is readily converted into xanthine by nitrous acid, a reaction of considerable use in originally determining the position of at least one oxy-group in this body. In addition to the above bodies, the purine group also contains...

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