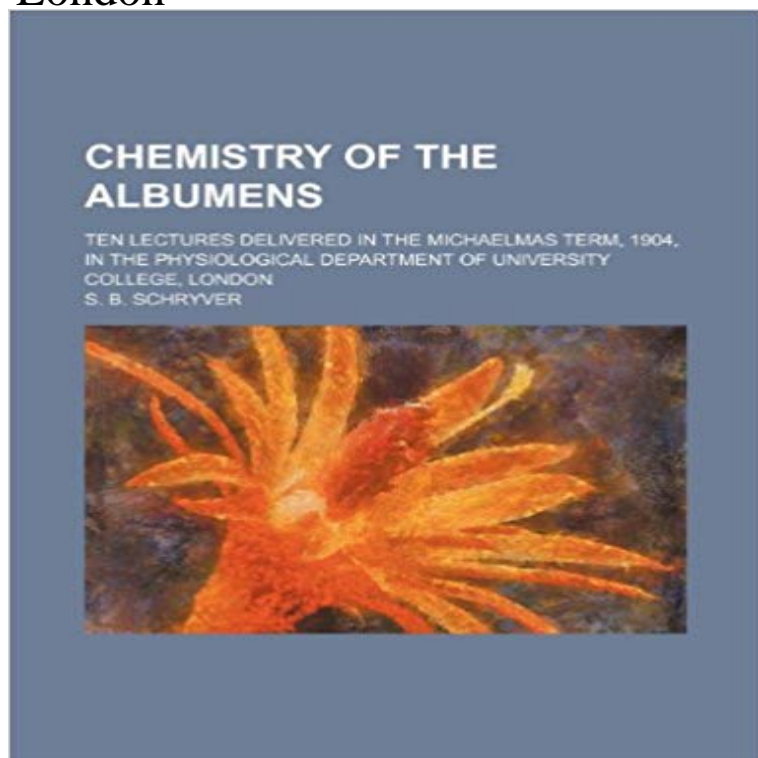


Chemistry of the albumens; Ten lectures delivered in the Michaelmas term, 1904, in the Physiological Department of University College, London



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 edition. Excerpt: ...I I OC C--NH I I H HN--C--N V On treatment with hydrochloric acid, alloxan and urea were formed. This immediately suggested the above formula. Xanthine could be synthetically obtained from uric acid by intermediation of trichlorpurine, which is obtained by the most drastic method of chlorination from the former body. Two methods were employed for preparing xanthine from trichlorpurine. (a) By the action of sodium ethoxide, which gives diethoxychlorpurine. This latter body on treatment with hydriodic acid is converted into xanthine. (b) By the action of hydriodic acid at 0. This yields di-iodopurine, 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 $\text{HN--CO HC C--NHv II II H N--C--N S}$ This can be obtained from trichlorpurine also. The latter on treatment with alkali under suitable conditions, yields 6-oxy2.8-dichloropurine, 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 6-aminopurine-- $\text{N=C.NH}_2 \text{ I I HC C--NH II II H N--C--N.T}$ 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. Trichlorpurine, on treatment under certain

conditions with ammonia, yields 6-aminodichloropurine, which on reduction yields adenine. The formula of this body is also determined, from the fact that with nitrous acid it is readily...

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