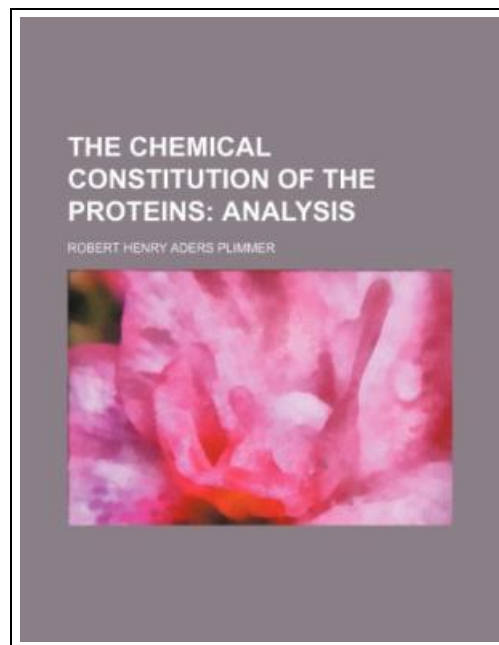


## The Chemical Constitution of the Proteins; Analysis



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### ***Reviews***

*Absolutely one of the best book I have ever study. It is actually writter in simple terms rather than confusing. I realized this pdf from my dad and i suggested this pdf to understand.*

***(Garry Quigley)***

## THE CHEMICAL CONSTITUTION OF THE PROTEINS; ANALYSIS



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. 1912 edition. Excerpt: . prepared from sec. butyl iodide and sodium acetoacetic ester: --CH<sub>2</sub>CH(COCH<sub>3</sub>)COCH<sub>3</sub>, I L II HCNa +I--C(CH<sub>3</sub>)=CH<sub>2</sub>.CH<sub>3</sub>=CH<sub>2</sub>+NaI+HC--CH(COCH<sub>3</sub>)CH<sub>2</sub>CH(COCH<sub>3</sub>)CH<sub>3</sub> This compound, when treated with nitrosyl sulphate was decomposed into acetic acid and α-oximino-sec-butylacetic acid, which, on reduction with zinc dust and hydrochloric acid in alcohol, gave a 60 per cent. yield of dl-isoleucine: --CH<sub>3</sub>CH(OH)NH<sub>2</sub>CO<sub>2</sub>H CH<sub>3</sub>CH(COCH<sub>3</sub>)CH<sub>2</sub>CH(COCH<sub>3</sub>)CH<sub>3</sub> Locquin has since obtained d-isoleucine from this racemic compound which was identical with Ehrlich's natural product, and this therefore has the above constitution. By the same series of reactions which Fischer and Schmitz employed in the preparation of leucine, F. Ehrlich synthesised isoleucine in 1908 from malonic ester and secondary butyl iodide, i.e., according to the following scheme: --C<sub>2</sub>H<sub>5</sub>CH(COOC<sub>2</sub>H<sub>5</sub>)CH<sub>2</sub>CN + CHNa(COOC<sub>2</sub>H<sub>5</sub>)<sub>2</sub> → C<sub>2</sub>H<sub>5</sub>CH(COOC<sub>2</sub>H<sub>5</sub>)CH(CN)CH<sub>2</sub>CN → C<sub>2</sub>H<sub>5</sub>CH(COOC<sub>2</sub>H<sub>5</sub>)CH(COOH)CH<sub>2</sub>CN → C<sub>2</sub>H<sub>5</sub>CH(COOC<sub>2</sub>H<sub>5</sub>)CH(COOH)CH<sub>2</sub>OH → C<sub>2</sub>H<sub>5</sub>CH(COOC<sub>2</sub>H<sub>5</sub>)CH(COOH)CH<sub>2</sub>NH<sub>2</sub> The same synthesis has also been carried out by Brasch and Friedmann. Phenylalanine. In a note published in 1879 Schulze mentioned a substance which he had obtained from the seedlings of *Lupinus luteus*; two years later he and Barbieri showed that this substance had the composition C<sub>9</sub>H<sub>9</sub>NNO<sub>2</sub>, and they described it as phenylamidopropionic acid, because, on oxidation, it gave benzoic acid, and, when heated, it lost carbon dioxide and gave a base, C<sub>8</sub>H<sub>9</sub>N. In its properties it closely resembled Tiemann's...



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