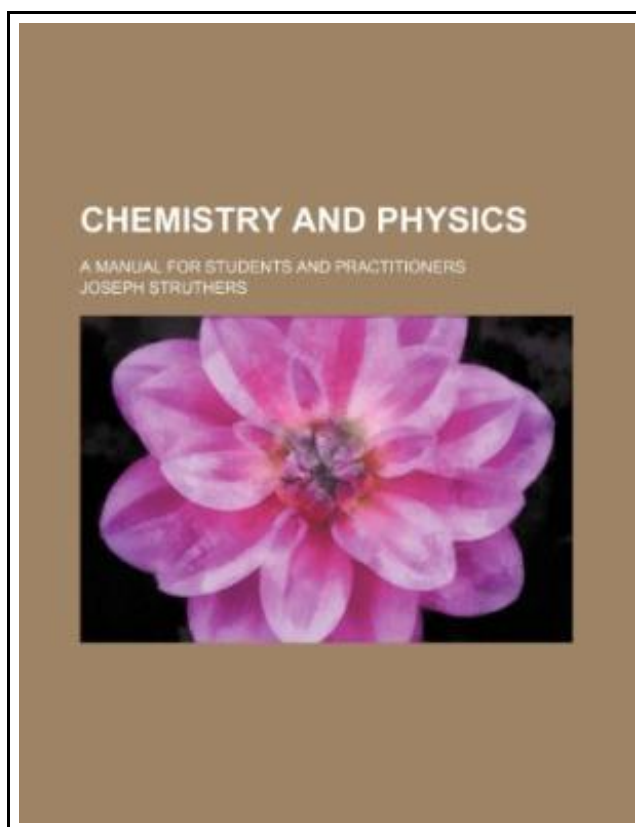


# Chemistry and Physics; A Manual for Students and Practitioners



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## ***Reviews***

*This publication is amazing. It is actually loaded with knowledge and wisdom You will like the way the blogger write this publication.*

***(Keon Altenwerth)***

## CHEMISTRY AND PHYSICS; A MANUAL FOR STUDENTS AND PRACTITIONERS

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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. 1893 Excerpt: . alcohol is known in which the hydroxyl is joined to an unsaturated carbon atom. How are the glycols prepared? By decomposing the diatomic haloid ethers with silver oxide and water, or by making the diacetates and decomposing these with caustic alkalies:  $\text{--C, H}_4\text{C}_1, +\text{Ag}_2\text{O, H}_2\text{O} = \text{CA(OM, + 2AgCl: CACAO, + 2NaOH} = \text{C}_2\text{H}_4(\text{OH})_2 + \text{Na}_2\text{C}_2\text{H}_3\text{O}_2$ . Caustic alkalies, acting on the haloid ethers, give unsaturated hydrocarbons. What are the properties of the glycols? They are colorless, oily liquids without odor, but with a. sweetish taste. Soluble in water, alcohol, and ether, ethylene glycol is insoluble in the latter alone. Oxidized, they give first mono-and then dibasic acids. Heated with haloid acids (except HD, they give hydrines  $(\text{C}_2\text{H}_4\text{OH})_x$ . They are like alcohol in many of their properties, but, being diatomic, they can form two classes of compounds:  $\text{--H H H--C--C--H}$ , ethylene compounds;  $x \times \text{H H H--()--(j--x}$ , ethylidine compounds; Butylene  $\text{C}_4\text{H}_8(\text{OH})_2$ , 6 two known; Amylene  $\text{C}_5\text{H}_{10}(\text{OH})_2$ , one known. What are triatomic alcohols? They are hydrocarbons in which three hydrogen atoms have been replaced by three hydroxyls. Only one will be considered, namely, propenyl alcohol or glycerine, which occurs in natural fats combined with fatty acids as propenyl esters. How is glycerine obtained? It is obtained by boiling fat with caustic alkalies (saponification):  $\text{--C}_3\text{H}_5(\text{C}_{18}\text{H}_{35}\text{O}_2)_3 + 3\text{KOH} = \text{C}_3\text{H}_5(\text{OH})_3 + 3\text{KC}_{18}\text{H}_{35}\text{O}_2$ . Stearine. Glycerine. Potassium stearate (soap). The ester can be decomposed with superheated steam: --Glycerine is prepared by heating olive or other similar oil with oxide of...



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