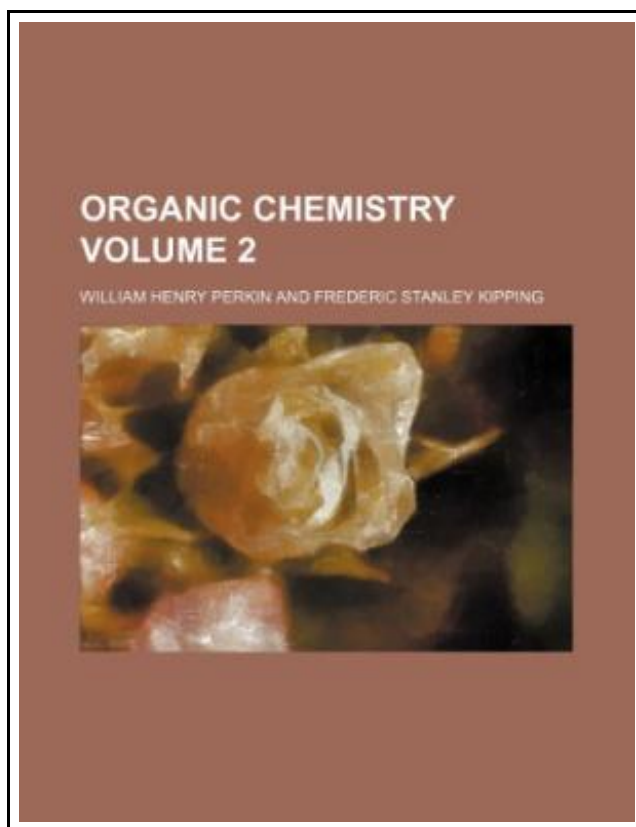


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### ***Reviews***

*This publication is definitely not simple to begin on studying but really exciting to read. It is actually rally fascinating through reading time. Your life span will be enhance when you complete looking at this publication.*

***(Laurence Littel)***

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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 80 pages. Dimensions: 9.7in. x 7.4in. x 0.2in. 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. 1895 Excerpt: . . . acid is manufactured by oxidising benzyl chloride (p. 348) with 60 per cent. nitric acid,  $\text{C}_6\text{H}_5\text{-CH}_2\text{Cl}$   $\rightarrow$   $\text{C}_6\text{H}_5\text{-COOH}$   $\xrightarrow{\text{HCl}}$ . It may also be prepared by oxidising toluene, or by any other of the general methods. Benzoic acid separates from water in glistening crystals, melts at 120, and boils at 250, but it sublimes very readily even at 100, and is volatile in steam; it dissolves in 400 parts of water at 15, but is readily soluble in hot water, alcohol, and ether. Its vapour has a characteristic odour, and an irritating action on the throat, causing violent coughing. Most of the metallic salts of benzoic acid are soluble in water and crystallise well; calcium benzoate,  $(\text{C}_6\text{H}_5\text{-COO})_2\text{Ca} \cdot 3\text{H}_2\text{O}$ , for example, prepared by neutralising benzoic acid with milk of lime, crystallises in needles, and is very soluble in water. The ethereal salts are prepared in precisely the same way as those of the fatty acids (part i. p. 187); ethyl benzoate, for example,  $\text{C}_6\text{H}_5\text{-COOC}_2\text{H}_5$ , is obtained by saturating an alcoholic solution of benzoic acid with hydrogen chloride, and after some time pouring the solution into water, the precipitated oil being purified by fractional distillation. It boils at 211, has a pleasant aromatic odour, and is readily hydrolysed by boiling alcoholic potash. Benzoyl chloride,  $\text{C}_6\text{H}_5\text{-COCl}$ , is obtained by treating benzoic acid with phosphorus pentachloride. It is a colourless oil, possessing a very irritating odour, and boils at 200; it is gradually decomposed by water, yielding benzoic acid and hydrochloric...



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