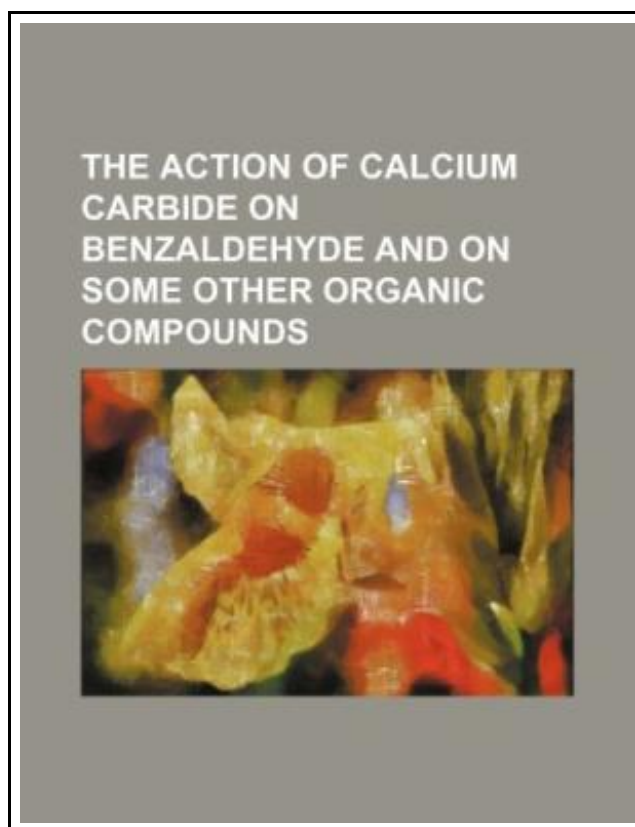


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General Books LLC. Paperback. Book Condition: New. This item is printed on demand. Paperback. 30 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. This historic book may have numerous typos and missing text. Purchasers can download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1918 Excerpt: . . . THE ACTION OF CALCIUM CARBIDE ON BENZALDEHYDE AND ON SOME OTHER ORGANIC COMPOUNDS Introduction Owing to its great affinity for water, calcium carbide should be a powerful dehydrating as well as condensing agent for such substances as present a possibility for condensation. The truth of this has, to some extent, been demonstrated by Hoehn¹ for organic acids, by Bodroux and Taboury² and by Wagner³ for acetone and its derivatives, by Lefebvre⁴ for alcohols and by McGrail⁶ for acetaldehyde, acetamide, acetanilide, ethyl acetate, ethyl oxalate, ethyl salicylate and ethyl alcohol. The work described in the following pages is a continuation of the study of the action of calcium carbide on various organic substances. The reactions with benzaldehyde were not the first to be studied but are described before the other experiments because of the importance the subject has assumed. The first experiments with calcium carbide and benzaldehyde were performed for the purpose of ascertaining whether calcium carbide could replace the acetic anhydride in the preparation of cinnamic acid by the Perkins reaction in which case the reaction would run in the following manner: $C_6H_5CHO + H_2CHCOONa + CaC_2 \rightarrow C_6H_5-CH=CH-COONa + CaO + C_2H_2$ The experiments were made at approximately the same temperatures used for the preparation of cinnamic acid in the ordinary way, for if the reaction had been carried out under pressure 1 *Berichte*, 39, (1906), 1703. *Bull. Soc. Chim.* (4)3, 831, (1908). 3 *Dissertation*, C. U. A. (1913); *Chem. Abs.* 8, 91, (1914). *Compt. rend.* 130,...



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