



On the Behavior of Benzoyl Carbinol Towards Alkalies and Oxidizing Agents: A Dissertation Submitted to the Faculties of the Graduate Schools of Arts, Literature, and Science, in Candidacy for the Degree of Doctor

By William Lloyd Evans

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from On the Behavior of Benzoyl Carbinol Towards Alkalies and Oxidizing Agents: A Dissertation Submitted to the Faculties of the Graduate Schools of Arts, Literature, and Science, in Candidacy for the Degree of Doctor of Philosophy Zincke and his students were the first to study the behavior of benzoyl carbinol towards oxidizing agents. They found that it gives, according to the oxidizing agent used, varying proportions of mandelic, benzoylformic, benzoic and carbonic acids. The most notable of their experiments was the action of copper and sodium hydroxides on benzoyl carbinol and acetolacetate, r-mandelic and r-lactic acids, respectively, being the chief reaction products obtained. Zincke suggested that in this reaction the benzoyl carbinol might first be resolved into benzaldehyde and formaldehyde and that these products might subsequently combine to give r-mandelic aldehyde, whose conversion to the corresponding acid, in the presence of the oxidizing agent, would then be readily understood. Kling, in his recently published statement, divides the action of oxidizing agents into three categories, according to the relative amount of lactic, acetic and carbonic acids obtained...

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