

FOR COMPANY USE ONLY

PROCESS FILE

DATE August 5, 1964

TEST CONCLUSION NO. T.A.-C. 64-4

OFFICIAL PRODUCT NAME tert-Butylbenzoylbenzoic Acid (T3BA)PRODUCT CODE NO. 114 950POUNDS PRODUCT ACTUAL 54,336AREA "Pongol"BUILDING NAME IntermediatesTITLE Extraction and Washing of T3BA Soda Salt from Solvent
(ODCB)PREPARED BY: G. C. Morley

PURPOSE OF TEST: To water wash the T3BA soda salt from the solvent (ODCB) instead of distilling the solvent from the soda salt. This will eliminate the solvent soluble tars from being isolated along with the T3BA. The solvent soluble tars have been the source of off-quality acid from recent production, resulting in the final product, 2-tert-Butylanthraquinone Pure, being low in quality and yield.

RESULTS OF TEST:

Twenty-seven charges totaling 54,336 lb. were produced in the last campaign. The yield was 97% of standard and the product was white to a very pale yellow with a melting range of 145°C. minimum. (Specification is 142°C. minimum.) Subsequent processing of this material to 2-tert-Butylanthraquinone Pure gave satisfactory product.

RECOMMENDATIONS:

This process be adopted for all future production.

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