

The compound (I) on a Grignard reaction gave an alcohol (IV), m.p. 177°-78° C. (Calc. for  $C_{14}H_{13}Br_3O$ : Br, 54.9; Found: 54.6). The latter on treatment with formic acid gave two compounds identified as 4-methyldiphenyl, m.p. 45°-46° C. and 2-methyl-4-phenyl-benzoic acid, m.p. 169°-70° C. Further reactions of the above compounds are being investigated.

*p*-Ethylphenol and 2, 4-xyleneol were found to react similarly with carbon tetrachloride giving oils from which the 2, 4-dinitrohydrazones prepared had m.p. 169°-70° C. (Calc. for  $C_{15}H_{13}N_4O_4Cl_3$ : N, 13.3; Found: 13.5) and 166°-67° C. (Calc. for  $C_{15}H_{13}N_4O_4Cl_3$ : N, 13.3; Found: 13.6) respectively.

A detailed report of the work will be published in due course.

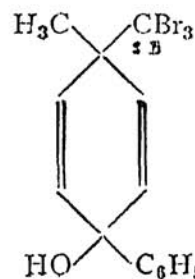
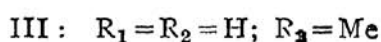
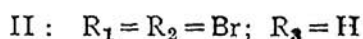
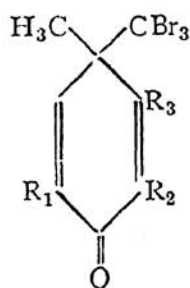
Bombay-1,  
Institute of Science,  
October 14, 1960.

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1. Newman, M. S. and Pinkus, A. G., *J. Org. Chem.*, 1954, 19, 978.
2. Newman, M. S., Eberwein John and Wood, L. L. Jr., *J. Am. Chem. Soc.*, 1959, 81, 6454.

### SOME REACTIONS OF PHENOLS [II]

*p*-CRESOL derivatives are known to undergo the Zincke and Suhl reaction with carbon tetrachloride giving cyclohexadienone derivatives.<sup>1,2</sup> In the present investigation *p*-cresol has been reacted with carbon tetrabromide in the presence of anhydrous aluminium bromide to yield 4-methyl-4-tribromomethyl-2, 5-cyclohexadienone (I) of m.p. 146°-47° C. (Calc. for  $C_8H_7Br_3O$ : Br, 66.8; Found: 66.7). The 2, 4-dinitrophenyl hydrazone of (I) gave m.p. 167° C. (Calc. for  $C_{14}H_{11}Br_3N_4O_4$ : N, 10.4; Found: 10.7). In a similar manner 2, 6-dibromo-*p*-cresol and 3, 4-xyleneol yielded with carbon tetrabromide the corresponding cyclohexadienone derivatives (II) and (III) having m.p. 99°-100° C. (Calc. for  $C_8H_5Br_5O$ : Br, 77.4; Found: 77.0) and 124°-25° C. (Calc. for  $C_9H_9Br_3O$ : Br, 64.3; Found: 64.7) respectively. They were characterised by the preparation of crystalline derivatives with 2, 4-dinitrophenylhydrazine.



(IV)