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## Effect of Added Salts on Solubility of Hippuric Acid in Urine (Abstract)

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EFFECT OF ADDED SALTS ON SOLUBILITY OF  
HIPPURIC ACID IN URINE (ABSTRACT)

T. U. MARRON

Solubility data are presented for the effect of added salts on the precipitation of hippuric acid from urine in quick liver function tests. Calculations appearing in the literature are inaccurate because they apply to varying solubility conditions. The effect of added salts is to standardize these conditions and give accurate calculations.

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THE FRIEDEL-CRAFTS REACTION WITH  
LONG-CHAINED ALKYL BROMIDES

(ABSTRACT)

R. N. MEALS AND HENRY GILMAN

It has been reported that 1-bromooctadecane reacts with benzene and aluminum chloride to give a 50 per cent yield of 1-phenyloctadecane. [Gilman and Turck, *J. Am. Chem. Soc.*, 61, 478 (1939)]. We have found that 1-bromohexadecane, 1-bromotetradecane and 1-bromododecane behave similarly. The case of 1-bromododecane was studied in more detail. Evidence was found that, in addition to 1-phenyldodecane, isomeric dodecylbenzenes were formed.

Incidental to this work the six isomeric 2-naphthalene-sulfonyl-p-n-dodecylanilides ( $B-C_{10}H_7 \cdot SO_2 \cdot NH \cdot C_6H_4 \cdot C_{12}H_{25}$ ) were prepared for use in a study of the validity of the mixed melting point determinations with structurally similar long-chained compounds.

Fractionation of the products of the reaction of 1-bromohexane, benzene and aluminum chloride (carried out at  $0^\circ$ ) showed that 1-phenylhexane, 2-phenylhexane and 3-phenylhexane were obtained. These hydrocarbons were characterized as their monacetamino and diacetamino derivatives [Ipatieff and Schmerling, *ibid.*, 59, 1056 (1937)] and as the sulfonamides. They were identified by comparison with synthetic specimens.

AMES, IOWA.