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The Preparation and Analysis of Monobromoamine, Dibromoamine, Monochloroamine, and Nitrosylchloride

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were similar to existing data on the streaming potential of such solutions through glass tubes and through cellulose diaphragms.

DEPARTMENT OF CHEMISTRY,
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IOWA CITY, IOWA.

THE PREPARATION AND ANALYSIS OF MONOBROMO-
OAMINE, DIBROMOAMINE, MONOCHLOROAMINE,
AND NITROSYLCHLORIDE

GEORGE H. COLEMAN AND GILBERT E. GOHEEN

Monobromoamine and dibromoamine were prepared in ether solution by the reaction of bromine with ammonia in ether solution at the temperature attainable with a mixture of dry ice and acetone.

An ethereal solution of monochloroamine in concentration of one mole per liter was prepared by the action of sodium hypochlorite on ammonia.

Pure liquid nitrosyl chloride was prepared by the action of dry hydrogen chloride with nitrosyl sulfuric acid.

Apparatus and methods for the preparation, purification, and analysis of these substances were illustrated and described.

DEPARTMENT OF CHEMISTRY,
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IOWA CITY, IOWA.

BINARY SYSTEMS WITH ACETAMIDE

ROBERT BUTIKOFER AND BEN H. PETERSON

The system acetamide — propionamide was investigated by the freezing point method. The solubility curve obtained showed a eutectic at approximately 0.5 mol. fraction. The experimentally determined solubility curve corresponds well with the ideal solubility calculated from the ideal equation.

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