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Recovery of Acetone and Application to Determine the Dinitrobenzene Content In Nitrobenzene without Affecting the Accuracy of Results

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ABSTRACT

Acetone is the organic compound with the formula $(CH_3)_2CO$. It is a colorless, volatile, flammable liquid, and is the simplest ketone. Acetone is miscible with water and serves as an important solvent in its own right, typically for cleaning purposes in the laboratory. To overcome the scarcity of acetone it was decided to recycle the used acetone in laboratory and reuse it again for determination of dinitrobenzene content in nitro benzene samples. The recycled acetone was checked for purity by gas chromatographic analysis before using it in day to day analysis in laboratory work. It was observed that the results obtained using recycled acetone was at par with those obtained using A.R. grade acetone.

Keywords: Acetone, Dinitrobenzene, Nitrobenzene, Recovery.
