

Determination of Water Content in Organic Solvents using a Novel Rapid Test Kit

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Abstract: A Novel Test for determining water in important organic solvents like Acetone, Ethyl Acetate, 1,4- Dioxane, Petroleum Ether in different ranges of volume % were explored. The test strips of Bromocresol Green (BG) , Methyl Orange (MO) indicator of dyes were used to measure the acidity of the organic solution. The Calibration Curve were used for detection of an unknown solution with water content. This was an attempt to explore solvatochromic effect on the indicator dyes, which inturn even measured the volume % of water in organic solvents. Since analysis time required was only 10 minutes, this method could be used as a handy and a quick indicator of water in organic solvents.

Keywords: Reliable; Cost Effective; Eco-Friendly; Handy; Novel Rapid Test Kit

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