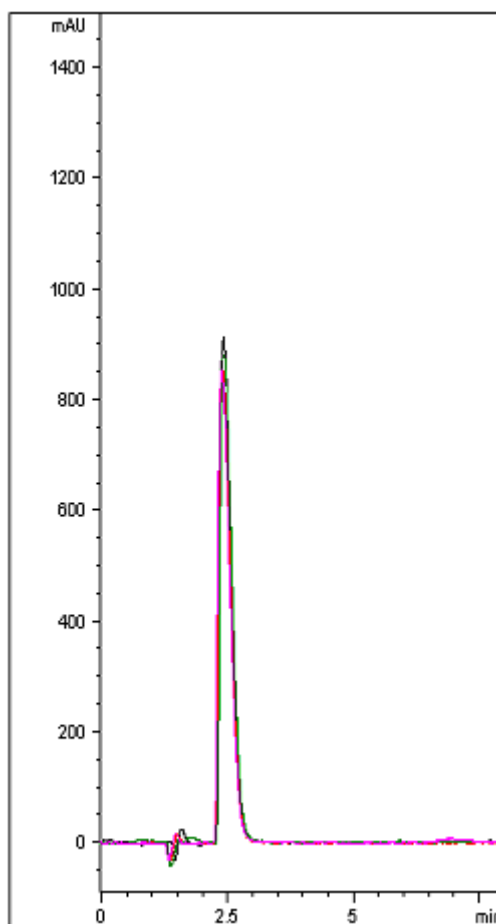


p-Toluenesulfonic Acid Monohydrate Analyzed with HPLC - AppNote

A Reproducible Method for Analysis of an Oxonium Salt

A rapid, sensitive, and Reproducible Method has been developed for Analysis of p-Toluenesulfonic Acid Monohydrate. The data below, (*an overlay of 5 chromatograms*) illustrates how the compound can be adequately Retained and detected using this straightforward Method.

A Phenyl ring in the Column Stationary Phase provides strategic use of π - π Interaction with the Analyte making possible the use of a very simple, Mass Spec-friendly Mobile Phase with Formic Acid as an additive.



5 Injections of p-Toluenesulfonic Acid Monohydrate 

Method Conditions

Column: Cogent Phenyl Hydride™, 4 μ m, 100Å

Dimensions: 4.6mm x 75mm

Mobile Phase: (85:15) DI Water / Acetonitrile with 0.1% Formic Acid

Injection vol.: 2 μ L

Flow rate: 1.0mL / minute

Detection: UV @ 210nm

Sample Preparation: p-Toluenesulfonic Acid Monohydrate prepared as 1.0mg / mL Standard Solution in DI Water

Notes: p-Toluenesulfonic Acid Monohydrate is widely used as catalyst agent in the synthesis of pharmaceuticals, pesticides, polymerization stabilizer and organic synthesis (esters, etc.), paint intermediates and resin curing agent.



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