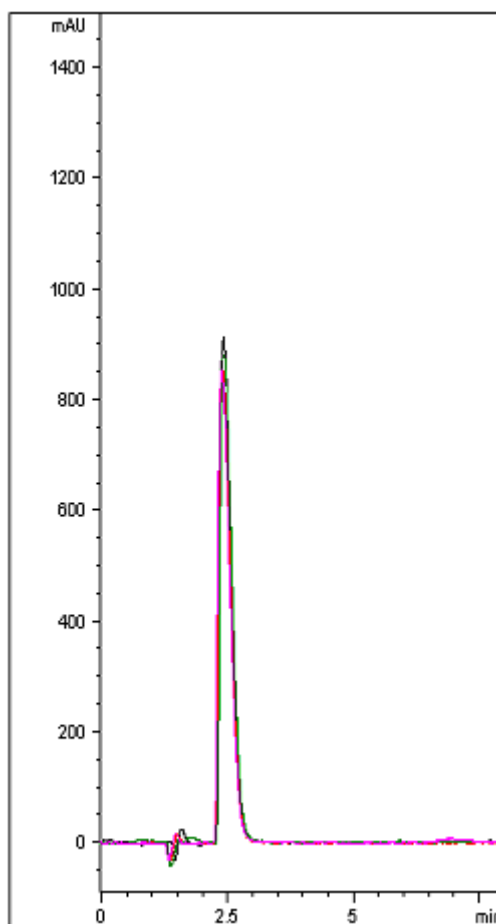


p-Toluenesulfonic Acid Monohydrate Analyzed with HPLC - AppNote

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.



Printed from the Chrom Resource Center

MicroSolv Technology Corporation

9158 Industrial Blvd. NE, Leland, NC 28451

tel. (732) 380-8900, fax (910) 769-9435

Email: customers@mtc-usa.com

Website: www.mtc-usa.com

Date: 06-05-2024