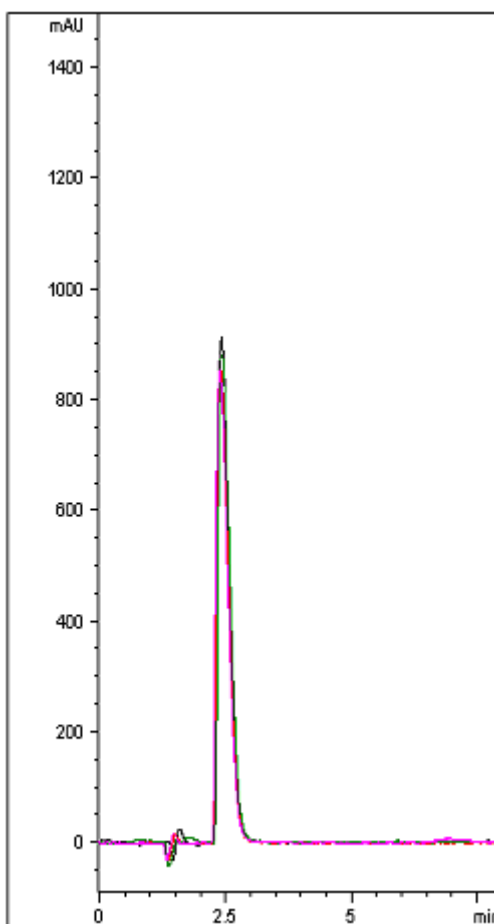


## p-Toluenesulfonic Acid Monohydrate Analyzed with HPLC - AppNote

### 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  $\pi$ - $\pi$  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 $\mu$ m, 100Å

**Dimensions:** 4.6mm x 75mm

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

**Injection vol.:** 2 $\mu$ L

**Flow rate:** 1.0mL / minute

# MICROSOLV

**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](mailto:customers@mtc-usa.com)

Website: [www.mtc-usa.com](http://www.mtc-usa.com)

Date: 07-03-2024