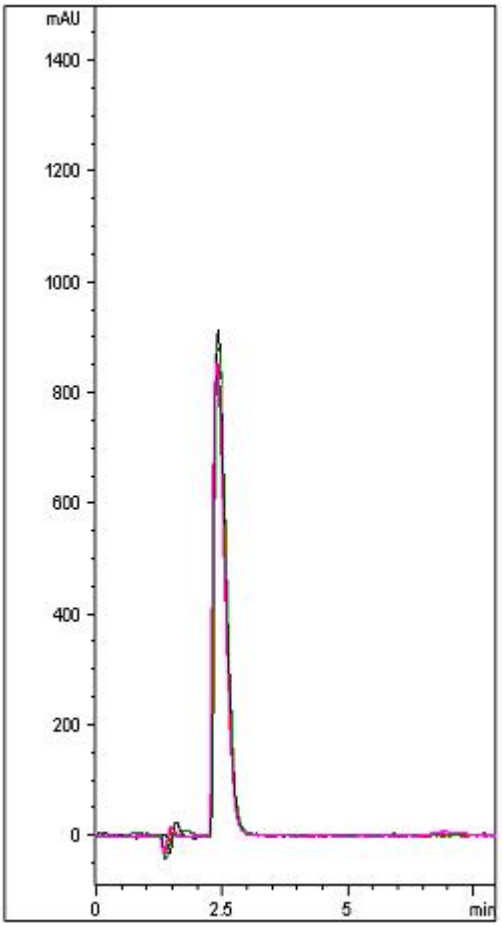
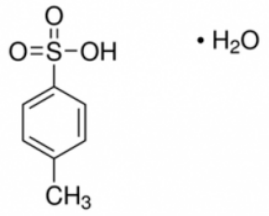
p-Toluenesulfonic Acid Monohydrate Analyzed with HPLC - AppNote

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.





p-toluenesulfonic acid monohydrate

5 Injections of p-Toluenesulfonic Acid Monohydrate

Method Conditions

Column: Cogent Phenyl Hydride™, 4µm, 100Å
Dimensions: 4.6mm x 75mm
Mobile Phase: (85:15) DI Water / Acetonitrile with 0.1% Formic Acid
Injection vol.: 2µL
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.

COGENT HPLC Columns™

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