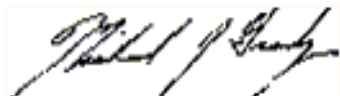


Certificate of Analysis

Product Name : p-Toluenesulfonic acid monohydrate ACS reagent, ≥98.5%
Product Number : 402885-100G
Batch Number : 0000106586
Source Batch : MKCL7841
CAS Number : 6192-52-5
Molecular Formula : C₇H₈O₃S · H₂O
Formula Weight : 190.22
Quality Release Date : 29 Jan 2020

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Appearance (Clarity)	Clear	Clear
c = 10g/50ml; Water		
Infrared Spectrum	Conforms to Structure	Conforms
Titration with NaOH	≥ 98.50 %	99.22 %
Water (by Karl Fischer)	9.5 - 11.5 %	10.3 %
Residue on ignition (Ash)	≤ 0.10 %	< 0.10 %
Iron (Fe)	≤ 0.01 %	< 0.01 %
by ICP Assay		
Sodium (Na)	≤ 0.002 %	< 0.001 %
by ICP Assay		
Heavy Metal	≤ 0.001 %	< 0.001 %
as Lead		
Sulfate (SO ₄)	≤ 0.30 %	< 0.30 %
Meets ACS Requirements	Current ACS Specification	Conforms



Michael Grady, Manager

Quality Control

Milwaukee, WI

US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale.

Version Number: 01 Doc 1050919

Page 1 of 1

The branding on the header and/or footer of this document may temporarily not visually match the product purchased as we transition our branding. However, all of the information in the document regarding the product remains unchanged and matches the product ordered. For further information please contact mlsbranding@sial.com

