

## CERTIFICATE OF ANALYSIS

PRODUCT NAME: p-Toluenesulfonic acid monohydrate,ACS, 98.5%

ITEM NUMBER: T118454  
BRAND: Aladdin  
CAS NUMBER: 6192-52-5  
MDL NUMBER: MFCD00142137  
FORMULA: C7H8O3S · H2O  
MOLECULAR WEIGHT: 190.22

TEST	SPECIFICATION		TARGET VALUE
	MIN.	MAX.	
Appearance	White Powder or Crystals		
Clarity of solution	Clear, 10g/50ml, Water		
Fe	0 %	0.01 %	0.01 %
Heavy Metals (as Lead)	0 %	0.001 %	0.001 %
Melting point	103 ° C	106 ° C	106 ° C
Na	0 %	0.002 %	0.002 %
Purity(HPLC)	98.5 %	100 %	100 %
residue on ignition	0 %	0.1 %	0.1 %
Sulfate(SO4)	0 %	0.3 %	0.3 %
Water by Karl Fischer	9.5 %	11.5 %	11.5 %