

Certificate of Analysis

Date of Testing: 2022-01-22 14:54:48
Date of Next Testing: 2026-01-21 14:54:48
Product Name: **MES monohydrate**
CAS Number: 145224-94-8
Specifications & Purity: $\geq 99\%$ (T)
Lot #: A2220482
SKU #: **M105074**
Analysis: **063766**
Storage Temperature: Room temperature

Parameter	Limit Values	Result
UV Absorbance 260nm	0-0.05	0.00
PH(25 °C, 0.5 M in Water)	2.5-4	3.42
Ignition Residue (900 °C) (as SO ₄ ²⁻)	0-0.05 (%)	0.00 %
UV Absorbance 280nm	0-0.02	0.00
Purity (Titration by NaOH)	98.5-101.5 (%)	101.38 %
Water by Karl Fischer(theory, monohydrate)	8-9 (%)	8.01 %
Appearance (M105074)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H ₂ O , clear, colorless,1.066g in 10 ml H ₂ O	pass	Pass
λ ,0.5 M in H ₂ O	Pass	Pass



John Su
QA & QC Manager