

## Certificate of Analysis

Date of Testing: 2022-06-11 12:33:02  
Date of Next Testing: 2026-06-10 12:33:02  
Product Name: **MES monohydrate**  
CAS Number: 145224-94-8  
Specifications & Purity:  $\geq 99\%$  (T)  
Lot #: F2209257  
SKU #: **M105074**  
**Analysis:** **083406**  
Storage Temperature: Room temperature

Parameter	Limit Values	Result
UV Absorbance 260nm	0-0.05	0.01
Water by Karl Fischer(theory, monohydrate)	8-9 (%)	8.48 %
PH(25 °C, 0.5 M in Water)	2.5-4	3.38
Ignition Residue (900 °C) (as SO <sub>4</sub> <sup>2-</sup> )	0-0.05 (%)	0.00 %
UV Absorbance 280nm	0-0.02	0.01
Purity (Titration by NaOH)	98.5-101.5 (%)	99.01 %
Appearance (M105074)	White Powder or Crystals	White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , clear, colorless,1.066g in 10 ml H <sub>2</sub> O	pass	Pass
$\lambda$ ,0.5 M in H <sub>2</sub> O	Pass	Pass



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QA & QC Manager