

# Specification

## Technical Data Sheet

<b>Product Name</b>	MES monohydrate
<b>Product No</b>	12705461
<b>CAS Number</b>	145224-94-8
<b>Storage Temperature</b>	Ambient
<b>Molecular Weight</b>	213.25
	<b>Specification</b>
<b>Appearance</b>	White crystalline powder
<b>Heavy metals</b>	≤ 5ppm
<b>Identification</b>	Conforms to reference
<b>pH</b>	3.5 - 4.5
<b>Water</b>	8.0 - 8.9%
<b>Pka</b>	5.9 - 6.3
<b>Residue on Ignition</b>	≤ 0.1%

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**A260, 0.5M water**

$\leq 0.025$

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**A280, 0.5 M water**

$\leq 0.020$

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**Assay (Titration) on dried basis**

$\geq 99.0\%$

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**Solubility 0.1M water**

Clear, Colourless Solution

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