

Specification

**MES 1-hydrate for buffer solutions**

**A1074**

<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A1074
<b>Product Name:</b>	MES 1-hydrate for buffer solutions
<b>Specifications:</b>	<p>Assay (titr.): min. 99 %</p> <p>Heavy metals (as Pb): max. 0.001 %</p> <p>pH (1 %; H<sub>2</sub>O; 25°C): 2.5 - 4.0</p> <p>Loss on drying: max. 9.5 %</p> <p>Chloride: max. 0.01 %</p> <p>Sulfate: max. 0.05 %</p> <p>A (1 cm/0.1 M in H<sub>2</sub>O)</p> <p>260 nm: max. 0.05</p> <p>280 nm: max. 0.02</p>
<b>WGK:</b>	1
<b>Storage:</b>	RT
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>13</sub> NO <sub>4</sub> S · H <sub>2</sub> O
<b>M:</b>	213.25 g/mol
<b>CAS:</b>	145224-94-8
<b>EINECS:</b>	224-632-3
<b>CS:</b>	29349990
<b>Comment</b>	<p>MES does not interfere with the Folin protein assay. MES partially decomposes, when autoclaved in the presence of glucose. MES is component of e. g. the DNase buffer (10 mM MES, pH 6 in 0.1 M NaCl; 5 mM MgCl<sub>2</sub>; 2 mM CaCl<sub>2</sub>).</p>
<b>Bibliography</b>	<p>(1)Good, N.E. <i>et al.</i> (1966) <i>Biochemistry</i> <b>5</b>, 467-477Hydrogen ion buffers for biological research. (2)Good, N.E. &amp; Izawa, S. (1972) <i>Methods Enzymol.</i> <b>24</b>, 53-68Hydrogen ion buffers. (3)Ferguson, W.J. <i>et al.</i> (1980) <i>Anal. Biochem.</i> <b>104</b>, 300-310Hydrogen ion buffers for biological research.</p>

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