

# Specification



## MOPSO Buffer grade

**A1078**

<b>Synonym</b>	3-Morpholino-2-hydroxy-propanesulfonic acid
<b>useful pH range</b>	pH 6.2 - 7.6
<b>pK<sub>a</sub> (20°C)</b>	6.95
<b>Melting point</b>	275 - 280°C (dec.)
<b>Formula</b>	C <sub>7</sub> H <sub>15</sub> NO <sub>5</sub> S
<b>M</b>	225.27 g/mol
<b>CAS-No.:</b>	68399-77-9
<b>HS-No.:</b>	29349990
<b>EC-No.:</b>	269-989-6
<b>Storage:</b>	RT
<b>LGK:</b>	10 - 13
<b>Disposal:</b>	3
<b>R:</b>	36/37/38
<b>S:</b>	26-36
	irritant
<b>Specification</b>	
<b>Assay (titr.)</b>	min. 99 %
<b>Solubility (0.5 M; H<sub>2</sub>O; 20°C)</b>	clear
<b>Sulfated ash</b>	max. 0.2 %
<b>Chloride</b>	max. 0.05 %
<b>Sulfate</b>	max. 0.005 %
<b>Fe</b>	max. 0.001 %
<b>Mg</b>	max. 0.0005 %
<b>Pb</b>	max. 0.0001 %
<b>Literature</b>	
(1)	Ferguson, W.J. <i>et al.</i> (1980) <i>Anal. Biochem.</i> <b>104</b> , 300-310 Hydrogen ion buffers for biological research.