

## Specification

### CHES for buffer solutions

**A1065**

<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A1065
<b>Product Name:</b>	CHES for buffer solutions
<b>Specifications:</b>	<p>Assay (titr.): min. 99 %</p> <p>pH (1 %; H<sub>2</sub>O; 20°C): 5.0 - 6.0</p> <p>Heavy metals (as Pb): max. 0.001 %</p> <p>Water: max. 1 %</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. 0.04</p>
<b>WGK:</b>	1
<b>Storage:</b>	RT
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>17</sub> NO <sub>3</sub> S
<b>M:</b>	207.29 g/mol
<b>CAS:</b>	103-47-9
<b>EINECS:</b>	203-115-6
<b>CS:</b>	29213099
<b>Comment</b>	<p>Reference 1 provides informations based on mathematical models for the right choice of the best buffer substance for investigations on pH-dependent processes. Unfortunately it requires detailed knowledge in mathematics. CHES interferes with the Lowry assay. It is suitable for the crystallization of phosphotriesterase (50 mM) or in the chemical modification of bacteriorhodopsin (10 mM).</p>
<b>Bibliography</b>	<p>(1)Ellis, K.J. &amp; Morrison, J.F. (1982) <i>Methods Enzymol.</i> <b>87</b>, 405-426 Buffers of constant ionic strength for studying pH-dependent processes. (2)Benning, M.M. <i>et al.</i> (1995) <i>Biochemistry</i> <b>34</b>, 7973-7978 Three dimensional structure of the binuclear center of phosphotriesterase. (3)Balashov, S.P. <i>et al.</i> (1995) <i>Biochemistry</i> <b>34</b>, 8820-8834 Investigation of the function of Asp-85 and Arg-82 in bacteriorhodopsin.</p>

#### AppliChem GmbH

Ottoweg 4 • D-64291 Darmstadt • Phone +49 6151 9357 0 • Fax +49 6151 9357 11 • [info.de@itwreagents.com](mailto:info.de@itwreagents.com) • [www.itwreagents.com](http://www.itwreagents.com)  
 CEO Joan Roget • Commerzbank Darmstadt • Bank 508 800 50 • Account 0186989900 IBAN DE24 5088 0050 0186 9899 00 • Swiftcode DRESDEFF508 • Finanzamt Darmstadt 07 228 16476 • Register court Darmstadt HRB Nr. 7340