

Specification

CHES for buffer solutions

A1065

Physical Description:	Solid
Product Code:	A1065
Product Name:	CHES for buffer solutions
Specifications:	<p>Assay (titr.): min. 99 %</p> <p>pH (1 %; H₂O; 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 H₂O)</p> <p>260 nm: max. 0.05</p> <p>280 nm: max. 0.04</p>
WGK:	1
Storage:	RT
Molecular Formula:	C ₈ H ₁₇ NO ₃ S
M:	207.29 g/mol
CAS:	103-47-9
EINECS:	203-115-6
CS:	29213099
Comment	<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>
Bibliography	<p>(1)Ellis, K.J. & Morrison, J.F. (1982) <i>Methods Enzymol.</i> 87, 405-426 Buffers of constant ionic strength for studying pH-dependent processes. (2)Benning, M.M. <i>et al.</i> (1995) <i>Biochemistry</i> 34, 7973-7978 Three dimensional structure of the binuclear center of phosphotriesterase. (3)Balashov, S.P. <i>et al.</i> (1995) <i>Biochemistry</i> 34, 8820-8834 Investigation of the function of Asp-85 and Arg-82 in bacteriorhodopsin.</p>

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