

Specification



CHES Buffer grade

A1065

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| Synonym | 2-(N-Cyclohexylamino)-ethanesulfonic acid |
| useful pH range | pH 8.6 - 10.0 |
| pK_a (25°C) | 9.55 |
| Formula | C ₈ H ₁₇ NO ₃ S |
| M | 207.29 g/mol |
| CAS-No.: | 103-47-9 |
| HS-No.: | 29213099 |
| EC-No.: | 203-115-6 |
| Storage: | RT |
| LGK: | 10 - 13 |
| Disposal: | 4 |
| Specification | |
| Assay (titr.) | min. 99 % |
| pH (1 %; H₂O; 20°C) | 5.0 - 6.0 |
| Heavy metals (as Pb) | max. 0.001 % |
| Water | max. 1 % |
| A (1 cm/0.1 M in H₂O) | |
| 260 nm | max. 0.05 |
| 280 nm | max. 0.04 |
| Literature | |
| <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.</p> <p>(2) Benning, M.M. <i>et al.</i> (1995) <i>Biochemistry</i> 34, 7973-7978 Three dimensional structure of the binuclear center of phosphotriesterase.</p> <p>(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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Comment

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).