

Specification

ACES for buffer solutions

A1060

Physical Description:	Solid
Product Code:	A1060
Product Name:	ACES for buffer solutions
Specifications:	<p>Assay (titr.): min. 99 %</p> <p>pH (1 %; H₂O; 20°C): 3.5 - 4.5</p> <p>Water (K.F.): max. 0.5 %</p> <p>A (1 cm/5 % in H₂O)</p> <p>280 nm: max. 0.02</p> <p>260 nm: max. 0.04</p>
WGK:	nwg
Storage:	RT
Molecular Formula:	C ₄ H ₁₀ N ₂ O ₄ S
M:	182.20 g/mol
CAS:	7365-82-4
EINECS:	230-908-4
CS:	29241900
Comment	<p>ACES is a zwitterionic buffer. A saturated solution contains 0.22 M at 0°C. The buffer substance is used e. g. for the uncoupled electron transport in chloroplast lamellae. ACES binds Cu²⁺, but not significantly Mg²⁺, Ca²⁺ or Mn²⁺.</p>
Bibliography	<p>(1)Good, N.E. <i>et al.</i> (1966) <i>Biochemistry</i> 5, 467-477Hydrogen ion buffers for biological research. (2)Good, N.E. & Izawa, S. (1972) <i>Methods Enzymol.</i> 24, 53-68Hydrogen ion buffers.</p>

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