

Specification

**ACES for buffer solutions**

**A1060**

<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A1060
<b>Product Name:</b>	ACES for buffer solutions
<b>Specifications:</b>	<p>Assay (titr.): min. 99 %</p> <p>pH (1 %; H<sub>2</sub>O; 20°C): 3.5 - 4.5</p> <p>Water (K.F.): max. 0.5 %</p> <p>A (1 cm/5 % in H<sub>2</sub>O)</p> <p>280 nm: max. 0.02</p> <p>260 nm: max. 0.04</p>
<b>WGK:</b>	nwg
<b>Storage:</b>	RT
<b>Molecular Formula:</b>	C <sub>4</sub> H <sub>10</sub> N <sub>2</sub> O <sub>4</sub> S
<b>M:</b>	182.20 g/mol
<b>CAS:</b>	7365-82-4
<b>EINECS:</b>	230-908-4
<b>CS:</b>	29241900
<b>Comment</b>	<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 Cu<sup>2+</sup>, but not significantly Mg<sup>2+</sup>, Ca<sup>2+</sup> or Mn<sup>2+</sup>.</p>
<b>Bibliography</b>	<p>(1)Good, N.E. <i>et al.</i> (1966) <i>Biochemistry</i> <b>5</b>, 467-477Hydrogen ion buffers for biological research. (2)Good, N.E. &amp; Izawa, S. (1972) <i>Methods Enzymol.</i> <b>24</b>, 53-68Hydrogen ion buffers.</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