


Specification

**Cacodylic Acid Sodium Salt 3-hydrate *BioChemica***

**A2140**

<b>Solubility:</b>	2000 g/L (H <sub>2</sub> O)
<b>Physical Description:</b>	Solid
<b>Product Code:</b>	A2140
<b>Product Name:</b>	Cacodylic Acid Sodium Salt 3-hydrate <i>BioChemica</i>
<b>Specifications:</b>	<p>Assay (titr.): min. 98 %</p> <p>Solubility (10 %; H<sub>2</sub>O): clear, colorless</p> <p>Chloride: max. 0.002 %</p> <p>Sulfate: max. 0.002 %</p> <p>Cd: max. 0.005 %</p> <p>Cu: max. 0.005 %</p> <p>Fe: max. 0.005 %</p> <p>Pb: max. 0.005 %</p> <p>Zn: max. 0.005 %</p>
<b>Hazard pictograms</b>	
<b>UN:</b>	1688
<b>Class/PG:</b>	6.1/II
<b>ADR:</b>	6.1/II
<b>IMDG:</b>	6.1/II
<b>IATA:</b>	6.1/II
<b>WGK:</b>	3
<b>Storage:</b>	RT

**AppliChem GmbH**

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 DRESDEFF508 • Finanzamt Darmstadt 07 228 16476 • Register court Darmstadt HRB Nr. 7340

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**A2140**

<b>Signal Word:</b>	Danger
<b>GHS Symbols:</b>	GHS06 GHS09
<b>H Phrases:</b>	H301+H331 H410
<b>P Phrases:</b>	P261 P301+P310 P321 P330 P405 P501
<b>Molecular Formula:</b>	$C_2H_6AsNaO_2 \cdot 3H_2O$
<b>M:</b>	214.03 g/mol
<b>CAS:</b>	6131-99-3
<b>EINECS:</b>	204-708-2
<b>CS:</b>	29319000
<b>Index Nr.:</b>	033-002-00-5
<b>Comment</b>	<p>Sodium cacodylate is a widely used buffer for different assays\:</p> <ul style="list-style-type: none"> <li>(I) enzyme reaction buffer (e. g. ref. 1, 4)\:</li> <li>labeling of DNA at the 3' end with <math>[\alpha\text{-}^{32}\text{P}]\text{ddATP}</math> in 140 mM sodium cacodylate buffer (pH 7.2, ref. 4; pH 6.8 ref. 1) and terminal transferase;</li> <li>(II) reaction buffer for the chemical modification / cleavage, e. g. for the sequencing of DNA (50 mM, pH 8.0, ref. 5);</li> <li>(III) fixation of tissue, membranes and cells with glutaraldehyde or formaldehyde, respectively, in fixation buffer (e. g. ref. 2, 3).</li> </ul> <p>The working concentration ranges from 10 - 50 mM and a pH value of 7.2. Please note, that cacodylate inhibits the alkaline phosphatase in a concentration dependent manner in the cytochemical assay for this enzyme. As an alternative, the authors recommend the use of a NaOH-Pipes buffer (2)</p>

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### Bibliography

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