# Certificate of Analysis

**Product Name:** Sodium-potassium alloy - Potassium 78 wt. %, Sodium 22 wt. %

<table>
<thead>
<tr>
<th>Test</th>
<th>Specification</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance (Color)</td>
<td>Conforms to Requirements</td>
<td>Silver</td>
</tr>
<tr>
<td>Silvery Metallic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance (Form)</td>
<td>Liquid</td>
<td>Liquid</td>
</tr>
<tr>
<td>Potassium (K)</td>
<td>76.0 - 80.0 %</td>
<td>77.2 %</td>
</tr>
<tr>
<td>Purity</td>
<td>Meets Requirements</td>
<td>Meets Requirements</td>
</tr>
<tr>
<td>99.95% Based on Trace Metals Analysis</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trace Metal Analysis</td>
<td>≤ 550 ppm</td>
<td>&lt; 550 ppm</td>
</tr>
<tr>
<td>Balance Sodium</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Silver (Ag)</td>
<td></td>
<td>&lt; 2.0 ppm</td>
</tr>
<tr>
<td>Aluminum (Al)</td>
<td></td>
<td>&lt; 10.0 ppm</td>
</tr>
<tr>
<td>Boron (B)</td>
<td></td>
<td>&lt; 6.0 ppm</td>
</tr>
<tr>
<td>Barium (Ba)</td>
<td></td>
<td>&lt; 2.0 ppm</td>
</tr>
<tr>
<td>Calcium (Ca)</td>
<td></td>
<td>&lt; 30.0 ppm</td>
</tr>
<tr>
<td>Cobalt (Co)</td>
<td></td>
<td>&lt; 10.0 ppm</td>
</tr>
<tr>
<td>Chromium (Cr)</td>
<td></td>
<td>&lt; 20.0 ppm</td>
</tr>
<tr>
<td>Copper (Cu)</td>
<td></td>
<td>&lt; 10.0 ppm</td>
</tr>
<tr>
<td>Iron (Fe)</td>
<td></td>
<td>&lt; 20.0 ppm</td>
</tr>
<tr>
<td>Lithium (Li)</td>
<td></td>
<td>&lt; 2.0 ppm</td>
</tr>
<tr>
<td>Magnesium (Mg)</td>
<td></td>
<td>4.0 ppm</td>
</tr>
<tr>
<td>Manganese (Mn)</td>
<td></td>
<td>&lt; 2.0 ppm</td>
</tr>
<tr>
<td>Molybdenum (Mo)</td>
<td></td>
<td>&lt; 2.0 ppm</td>
</tr>
<tr>
<td>Nickel (Ni)</td>
<td></td>
<td>&lt; 10.0 ppm</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td></td>
<td>2.0 ppm</td>
</tr>
<tr>
<td>Rubidium (Rb)</td>
<td></td>
<td>&lt; 50.0 ppm</td>
</tr>
<tr>
<td>Silicon (Si)</td>
<td></td>
<td>&lt; 20.0 ppm</td>
</tr>
<tr>
<td>Tin (Sn)</td>
<td></td>
<td>&lt; 10.0 ppm</td>
</tr>
<tr>
<td>Strontium (Sr)</td>
<td></td>
<td>&lt; 2.0 ppm</td>
</tr>
</tbody>
</table>

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.
## Certificate of Analysis

<table>
<thead>
<tr>
<th>Test</th>
<th>Specification</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium (Ti)</td>
<td></td>
<td>&lt; 10.0 ppm</td>
</tr>
<tr>
<td>Vanadium (V)</td>
<td></td>
<td>&lt; 20.0 ppm</td>
</tr>
<tr>
<td>Zirconium (Zr)</td>
<td></td>
<td>&lt; 20.0 ppm</td>
</tr>
</tbody>
</table>

Michael Grady, Manager  
Quality Control  
Milwaukee, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.