

## CERTIFICATE OF ANALYSIS<sup>®</sup>

<b>SKU</b>	<b>CHE-E14</b>
<b>CHEMICAL NAME</b>	<b>ETHANOL 99%</b>
<b>CHEMICAL GRADE</b>	<b>ANALYTICAL REAGENT</b>
<b>CAS NUMBER</b>	<b>64-17-5</b>
<b>APPEARANCE</b>	<b>CLEAR COLOURLESS LIQUID</b>
<b>BATCH NUMBER</b>	<b>RLS-EE87776</b>
<b>EXPIRY DATE</b>	<b>11/11/2028</b>

### Warranty Certificate

<i><b>Test</b></i>	<i><b>Specifications</b></i>	<i><b>Results</b></i>
<b>ASSAY</b>	<b>99.5% Min</b>	<b>99.8%</b>
<b>DENSITY @20°C</b>	<b>0.7900g/ml Max</b>	<b>0.7883g/ml</b>
<b>METHANOL</b>	<b>&lt;20ppm</b>	<b>3ppm</b>
<b>WATER (H2O)</b>	<b>&lt;0.15%</b>	<b>0.05%</b>
<b>ACIDITY as CH3COOH</b>	<b>30ppm Max</b>	<b>5ppm</b>
<b>ACETALDEHYDE</b>	<b>10ppm Max</b>	<b>3.4ppm</b>
<b>ESTERS</b>	<b>50ppm Max</b>	<b>20ppm</b>
<b>HIGHER ALCOHOLS</b>	<b>10ppm Max</b>	<b>4ppm</b>
<b>RESIDUE ON EVAPORATION</b>	<b>25ppm Max</b>	<b>13ppm</b>
<b>NON-VOLATILE IMPURITIES</b>	<b>25ppm Max</b>	<b>CONFORMS</b>
<b>ABSORBANCE 240nm</b>	<b>0.40 Max</b>	<b>CONFORMS</b>
<b>ABSORBANCE 250 -260nm</b>	<b>0.30 Max</b>	<b>CONFORMS</b>
<b>ABSORBANCE 270nm -340nm</b>	<b>0.10 Max</b>	<b>CONFORMS</b>

RLS Chemical warrants conformance of its products against the relevant specification in good faith. In-house quality control procedures include representations provided by production/manufacturing source. A representative batch retention sample of the above-mentioned material has tested according to results above. Shelf life is based on current knowledge and holds only for correct storage in the original closed and sealed containers. Suitability of the product for a particular use or application is not guaranteed. It remains the responsibility of the user to determine such.

APPROVED DATE: 06.01.2025



**Quality Control**

**Quality Management ISO 9001:2015  
NIST traceable calibration certified.**