



# Certificate of Analysis

PRODUCT: ETHANOL, absolute UNIVAR

PRODUCT CODE: AJA214-20L

BATCH NO. : 383641 DATE MANUFACTURED: 13/12/2021

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Assay:	99.5% v/v min.	100.0%
Colour (APHA)	≤ 10	≤ 10
Water	≤ 0.2%	≤ 0.2%
R.A.E.	≤ 0.001%	≤ 0.001%
Titrateable acid	≤ 0.0005 meq/g	≤ 0.0005 meq/g
Titrateable base	≤ 0.0002 meq/g	≤ 0.0002 meq/g
Acetone, isopropyl alcohol	passes test	Pass
Methanol (CH <sub>3</sub> OH)	≤ 0.1%	≤ 0.1%
Al, K	≤ 0.00001%	≤ 0.00001%
Sol. in H <sub>2</sub> O	passes test	Pass
Subs. darkened by H <sub>2</sub> SO <sub>4</sub>	passes test	Pass
Subs. Red KMnO <sub>4</sub>	passes test	Pass
Cu, Mg	≤ 0.00005%	≤ 0.00005%
Ba,B,Cr,Co,Mn,Ni,Mo,Sr,Ti,V,Zr	≤ 0.000002%	≤ 0.000002%
Cd, Pb	≤ 0.000002%	≤ 0.000002%
Ca	≤ 0.0002%	≤ 0.0002%
Fe, Zn	≤ 0.0001%	≤ 0.0001%
Na	≤ 0.002%	≤ 0.002%
Sn	≤ 0.00001%	≤ 0.00001%

CONFORMS TO ACS

Retest Date: December 2026

14/12/2021

Signed:

Compliance Manager

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14/12/2021

**Signed:**

A handwritten signature in black ink that reads "Paul McCarty". The signature is written in a cursive style with a prominent 'M' and 'C'.

**Compliance Manager**

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