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# Certificate of Analysis

**Product**

**84578 - Acetonitrile (ACN) extrapure AR, 99.5% -  
[75-05-8]**

**Batch No**

**5358716**

**Analysis Date**

27-Jun-2024

**Date of Manufacture**

June 2024

**Expiry Date/Re-Test Date**

June 2029

**Molecular Formula**

CH<sub>3</sub>CN

**Molecular Weight**

41.05

| Test Parameters                          | Standards                         | Actual Results |
|--|-----------------------------------|----------------|
| Appearance (Clarity)                     | Clear                             | Clear          |
| Appearance (Colour)                      | Colourless                        | Colourless     |
| Appearance (Form)                        | Liquid                            | Liquid         |
| Colour (APHA)                            | max. 10                           | Passes         |
| Assay (GC)                               | min. 99.5%                        | 99.94%         |
| Density (g/ml) @ 20°C                    | 0.780 - 0.783                     | 0.781          |
| Refractive Index (20°C)                  | 1.343 - 1.344                     | 1.343          |
| Boiling Range                            | 81 - 83°C                         | 81 - 83°C      |
| Non Volatile Matter                      | max. 0.001%                       | 0.0001%        |
| Acidity (CH <sub>3</sub> COOH)           | max. 0.01%                        | 0.001%         |
| Alkalinity                               | max. 0.001% (as NH <sub>3</sub> ) | Not Detected   |
| Iron (Fe)                                | max. 0.00001%                     | Passes         |
| Heavy Metals (Pb)                        | max. 0.00001%                     | Passes         |
| Benzene (C <sub>6</sub> H <sub>6</sub> ) | max. 0.1% (GC)                    | Passes         |
| Cyanide (CN)                             | max. 0.005%                       | Passes         |
| Miscibility with water                   | Passes test                       | Passes         |
| Water (KF)                               | max. 0.1%                         | 0.08%          |

FRM/82/11/2/84578 Rev No. 1 Date 01/11/2015

Prepared by **Udit**

In compliance with the standard specifications of SRL

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