



### CERTIFICATE OF ANALYSIS

**PRODUCT NAME : PERCHLORIC ACID 60% AR**

**CAS No** : 7601-90-3  
**Mol. Formula** :  $\text{HClO}_4$   
**Mol. WT** : 100.46  
**Date of Analysis** : 25/07/19

**Product code** : 24635  
**Batch No** : MCR-19239  
**Mfd.** : July 2019  
**Exp.** : June 2024

| S.R | Test                                    | Specification           | Observation             |
|-----|-----------------------------------------|-------------------------|-------------------------|
| 1   | Description                             | Clear colourless liquid | Clear colourless liquid |
| 2   | Assay                                   | 60.0-62.0 %             | 61.23%                  |
| 3   | Non volatile matter                     | 0.003 % max             | 0.002%                  |
| 4   | Chlorate( $\text{ClO}_3$ )              | 0.0012 % max            | < 0.0012 %              |
| 5   | Chloride( $\text{Cl}$ )                 | 0.0001 % max            | < 0.0001 %              |
| 6   | Free chlorine( $\text{Cl}$ )            | 0.0005 % max            | < 0.0005 %              |
| 7   | Nitrate( $\text{NO}_3$ )                | 0.001 % max             | < 0.001 %               |
| 8   | Phosphate & Silicate ( $\text{SiO}_2$ ) | 0.0003 % max            | < 0.0003 %              |
| 9   | Sulphate( $\text{SO}_4$ )               | 0.0004 % max            | < 0.0004 %              |
| 10  | Ammonium( $\text{NH}_4$ )               | 0.0002 % max            | < 0.0002 %              |
| 11  | Arsenic (As)                            | 0.000005 % max          | < 0.000005 %            |
| 12  | Copper(Cu)                              | 0.00001 % max           | < 0.00001 %             |
| 13  | Iron (Fe)                               | 0.00005% max            | < 0.00005 %             |
| 14  | Lead (Pb)                               | 0.00001 % max           | < 0.00001 %             |
| 15  | Manganese(Mn)                           | 0.00005 % max           | < 0.00005 %             |
| 16  | Mercury(Hg)                             | 0.00001 % max           | < 0.00001 %             |
| 17  | Potassium(K)                            | 0.002 % max             | < 0.002 %               |
| 18  | Silver(Ag)                              | 0.00001 % max           | < 0.00001 %             |
| 19  | Sodium(Na)                              | 0.002 % max             | < 0.002 %               |

**REMARK:** THE PRODUCT COMPLIES WITH THE ABOVE SPECIFICATIONS

**[Tested By]**

**[QC Incharge]**

**HEAD-QUALITY ASSUARANCE**  
**(G.G.Salian)**

**Note:** Computer generated image requires no sign.

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