



## CERTIFICATE OF ANALYSIS

Date: 15/02/18

PRODUCT NAME : TOLUENE AR

CAS No : 108-88-3                      Product code : 26680  
Mol. Formula : C<sub>7</sub>H<sub>8</sub>                      Batch No : MCRT-15486  
Mol. WT : 92.14                      Mfd. : Feb. 2018  
Exp. : Jan.2023

| S. R | Test  | Specification         | Observation           |
|------|---|-----------------------|-----------------------|
| 1    | Assay (GC)  | 99.5 % min            | 99.91 %               |
| 2    | Wt. per ml at 20°C                                    | 0.860-0.867 g         | 0.863 g               |
| 3    | Refractive index at 20°C                              | 1.494-1.497           | 1.496                 |
| 4    | Water(by KF)  | 0.03 % max            | 0.02 %                |
| 5    | Acidity   | 0.012 ml N% max       | <0.012 ml N%          |
| 6    | Alkalinity  | 0.012 ml N% max       | < 0.012 ml N%         |
| 7    | Non volatile matter                                   | 0.002 % max           | 0.0006%               |
| 8    | Benzene(C <sub>6</sub> H <sub>6</sub> )               | 0.2 % max             | < 0.2%                |
| 9    | Copper (Cu)   | 0.00005 % max         | < 0.00005 %           |
| 10   | Iron(Fe)  | 0.0001 % max          | < 0.0001 %            |
| 11   | Lead(Pb)  | 0.00005 % max         | < 0.00005 %           |
| 12   | Organic impurities                                    | Passes acid wash test | Passes acid wash test |
| 13   | Sulphur compounds (CS <sub>2</sub> )                  | 0.0003 % max          | < 0.0003 %            |
| 14   | Thiophen Homologues (C <sub>4</sub> H <sub>4</sub> S) | 0.0002 % max          | <0.0002 %             |

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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