



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME : CHOLINE CHLORIDE 98%**

CAS No : 67-48-1  
Mol. Formula : C<sub>5</sub>H<sub>14</sub>ClNO  
At. WT : 139.63  
Date of analysis : 30/06/19

Product code : 31453  
Batch No : MCR-19070  
Mfd. : June 2019  
Exp. : May 2024

| S.R | Test                              | Specification                                      | Observation                            |
|-----|-----------------------------------|--|--|
| 1   | Description                       | White deliquescent crystals or crystalline powder. | White deliquescent crystalline powder. |
| 2   | Assay (on dried material )        | 98% min  | 99.75%                                 |
| 3   | pH (10% aq. solution)             | 5 – 6.5  | 6.3                                    |
| 4   | Moisture ( By KF)                 | 2 % max  | 0.2%                                   |
| 5   | Sulphated ash                     | 0.2 % max  | 0.1%                                   |
| 6   | Free amine<br>(as dimethylamine ) | 0.1 % max  | 0.04%                                  |

**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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