

## SPECIFICATION

### Cetylpyridinium Chloride

| Parameters        | Specification                                                                                                                 |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------|
| CAS Number        | 0123-03-05                                                                                                                    |
| Appearance        | White to off-white crystalline powder                                                                                         |
| Molecular Formula | C <sub>21</sub> H <sub>38</sub> ClN                                                                                           |
| Molecular Weight  | 339.99 g/mol                                                                                                                  |
| Boiling Point     | 496 °C                                                                                                                        |
| Purity            | 95-97%                                                                                                                        |
| Refractive Index  | 1.6                                                                                                                           |
| Solubility        | Freely soluble in water; very soluble in chloroform; slightly soluble in ether; insoluble in acetone, acetic acid, ethanol    |
| Uses              | Broad-spectrum antibacterial agent; used in mouthwashes, lozenges, toothpastes, throat sprays, cosmetics, and as preservative |

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