

## SPECIFICATION

### Benzyl Chloride

| Parameters        | Specification                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|
| CAS Number        | 100-44-7                                                                                                                |
| Appearance        | Colorless to pale yellow liquid                                                                                         |
| Molecular Formula | C <sub>7</sub> H <sub>7</sub> Cl                                                                                        |
| Molecular Weight  | 126.58 g/mol                                                                                                            |
| Boiling Point     | 179 °C                                                                                                                  |
| Melting Point     | -15 °C                                                                                                                  |
| Flash Point       | 36 °C                                                                                                                   |
| Purity            | 98–99%                                                                                                                  |
| Refractive Index  | 1.531                                                                                                                   |
| Solubility        | Immiscible in water; soluble in organic solvents                                                                        |
| Uses              | Alkylating agent for benzylation in organic synthesis; intermediate in pharmaceutical, fragrance, and polymer chemistry |

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