

**PRODUCT SPECIFICATION SHEET**
**Calcium Oxide, USP/FCC Grade**
**Product Specifications (CAS RN: 1305-78-8)**

| Test                                     | Specification  | Typical Results |
|--|--|-----------------|
| Description                              | White crystalline masses or granular powder or granules.   | Complies        |
| Assay                                    | Not less than 95.0%  | 97.04%          |
| Identification A: Reaction with Water    | A smooth magma of lime forms and is alkaline to litmus.  | Complies        |
| Identification B: Reaction of Calcium    | To comply the test   | Complies        |
| Impurities A: Acid insoluble substances  | Not more than 1.0% (50 mg)   | 0.78%           |
| Impurities B: Magnesium and Alkali salts | Not more than 9 mg   | <9 mg           |
| Impurities C: Arsenic                    | NMT 3 ppm  | <3 ppm          |
| Impurities D: Fluoride                   | NMT 0.005%   | <0.005%         |
| Impurities E: Heavy metals               | NMT 0.004%   | <0.004%         |
| Impurities F: Lead                       | NMT 10 ppm   | <10 ppm         |
| Impurities G: Carbonates                 | Only slight effervescences produced  | Complies        |
| Loss on Ignition (LOI)                   | Not more than 10.0%  | 5.79%           |
| Solubility                               | 1 g dissolves in about 840 mL of water at 25° and in about 1740 mL of boiling water. It is soluble in glycerin but insoluble in alcohol. | Complies        |

Appropriate/legal use of this product is the responsibility of the user.

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