

# Certificate of Analysis

## Calcium Oxide Nanoparticle

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### Key Spec Table

CAS #	EC Number	Hill Formula	Molar Mass
<b>1305-78-8</b>	215-138-9	CaO	56.07 g/mol


### Pricing & Availability

Catalogue Number	Availability	Packaging	Qty/Pack	Price	Quantity
<b>1021091000</b>	—	Plastic bottle	1 kg	<b>Upon Order Completion More Information</b>	—
<b>1021099025</b>	—	Fibre carton	25 kg	<b>Upon Order Completion More Information</b>	—

Add To Cart

Description

<b>Description</b>	
<b>Synonyms</b>	Lime, caustic, Quicklime
<b>Product Information</b>	
<b>CAS number</b>	1305-78-8
<b>EC number</b>	215-138-9
<b>Hill Formula</b>	CaO
<b>Molar Mass</b>	56.07 g/mol
<b>HS Code</b>	2825 90 90
<b>Physicochemical Information</b>	
<b>Boiling point</b>	2850 °C (100 mbar)
<b>Density</b>	3.37 g/cm <sup>3</sup> (20 °C)
<b>Melting Point</b>	2580 °C
<b>pH value</b>	12.6 (H <sub>2</sub> O, 20 °C) (saturated solution)
<b>Bulk density</b>	800 - 1200 kg/m <sup>3</sup>

Physicochemical Information	
<b>Solubility</b>	1.65 g/l Risk of violent reaction.
Safety Information according to GHS	
<b>Hazard Pictogram(s)</b>	
<b>Hazard Statement(s)</b>	<p>H315: Causes skin irritation.</p> <p>H318: Causes serious eye damage.</p> <p>H335: May cause respiratory irritation.</p>
<b>Precautionary Statement(s)</b>	<p>P261: Avoid breathing dust.</p> <p>P264: Wash skin thoroughly after handling.</p> <p>P271: Use only outdoors or in a well-ventilated area.</p> <p>P280: Wear protective gloves/ eye protection/ face protection.</p> <p>P302 + P352: IF ON SKIN: Wash with plenty of water.</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p>
<b>Signal Word</b>	Danger
<b>RTECS</b>	EW3100000
<b>Storage class</b>	10 - 13 Other liquids and solids
<b>WGK</b>	WGK 1 slightly hazardous to water

**Safety Information according to GHS****Disposal**

14

Inorganic salts: Container I. Neutral solutions of the these salts: Container D. Before placing in Container D, check the pH with pH-Universal indicator strips (Item No. 109535).

**Safety Information****Categories of danger**

irritant

**Storage and Shipping Information****Storage**

NoTempLimit

**Transport Information****Declaration (railroad and road) ADR, RID**

Kein Gefahrgut

**Declaration (transport by air) IATA-DGR**

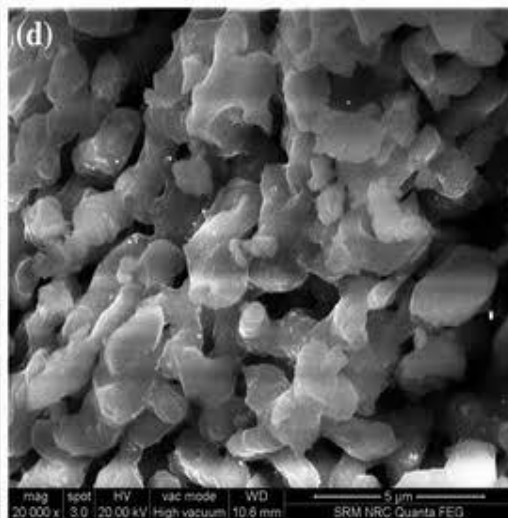
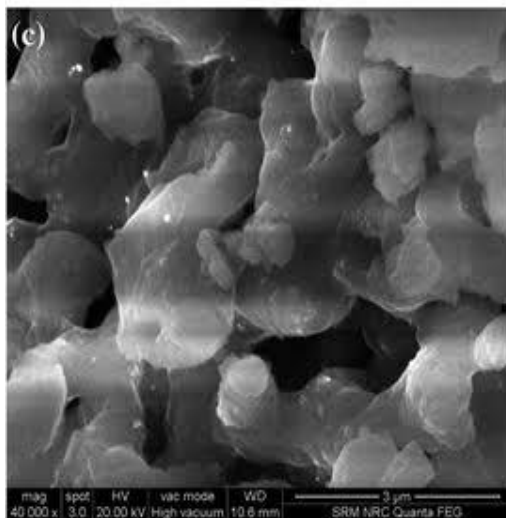
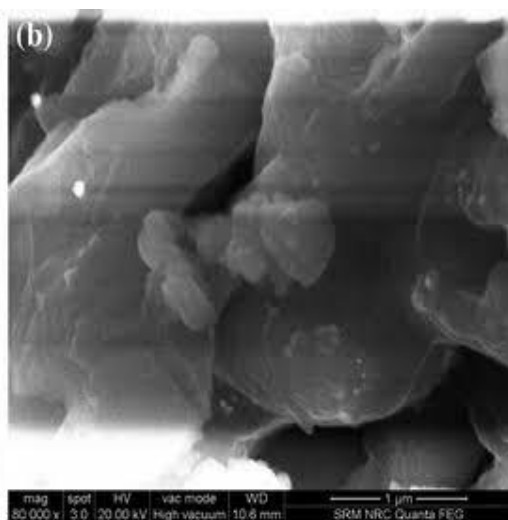
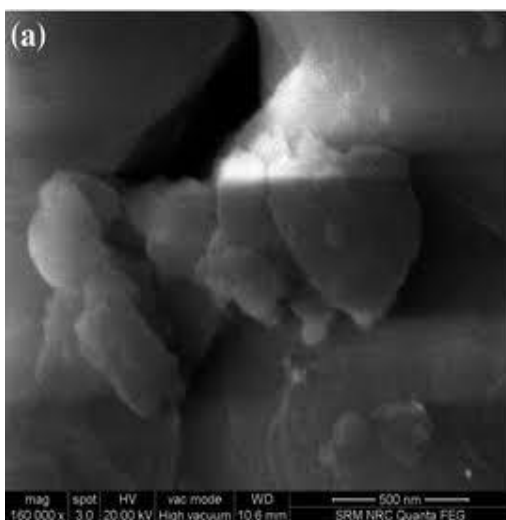
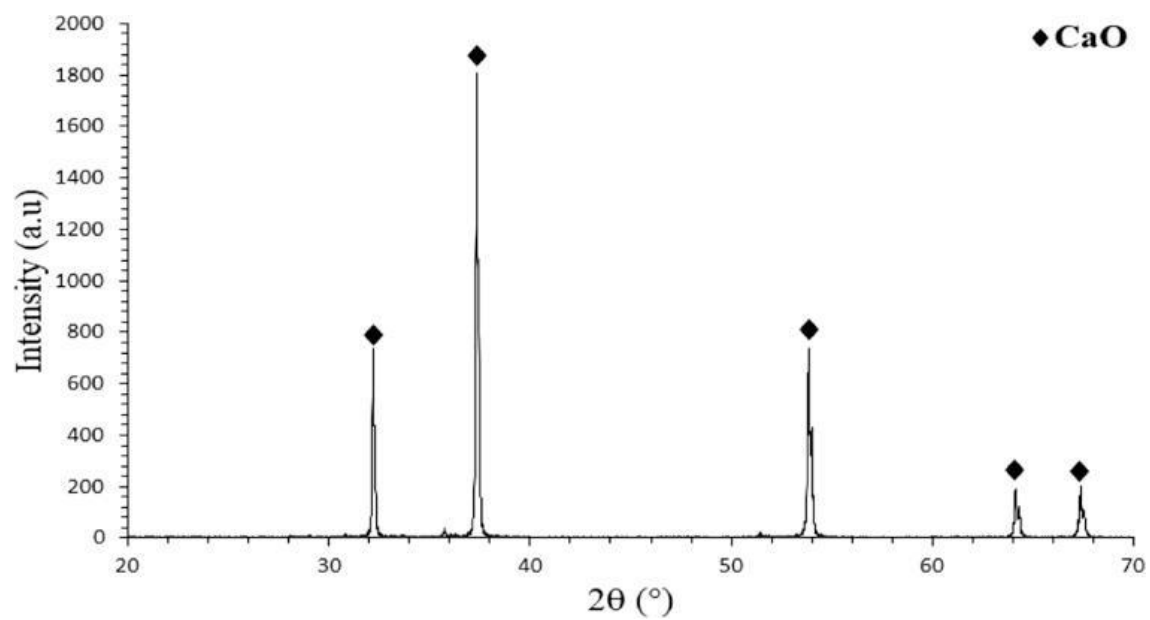
UN 1910 , 8, III

**Declaration (transport by sea) IMDG-Code**

No Dangerous Good

<b>Specifications</b>	
<b>Assay (complexometric)</b>	$\geq 95.0 \%$
<b>Substances insoluble in hydrochloric acid</b>	$\leq 0.1 \%$
<b>Chloride (Cl)</b>	$\leq 500 \text{ ppm}$
<b>Sulfate (SO<sub>4</sub>)</b>	$\leq 5000 \text{ ppm}$
<b>Heavy metals (as Pb)</b>	$\leq 50 \text{ ppm}$
<b>Particle Size</b>	20nm

**XRD**



**SEM**