

PRODUCT IDENTIFICATION



Product Name: Soda Ash
CAS Number: 497-19-8
Molecular Formula: CNa_2O_3
Molecular Weight: 105.988 g/mol
Grade: Technical Grade
Purity / Concentration: 100%
Synonyms: Sodium Carbonate, Soda

PRODUCT OVERVIEW

Soda Ash, chemically known as sodium carbonate (Na_2CO_3), is a white, odorless powder that is highly soluble in water. It is primarily used in various industrial applications, including glass manufacturing and water treatment, due to its ability to adjust pH levels and act as a buffering agent.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay	%	100.0	99.5	100.5	Titration/Gravimetric
pH	—	8.3	8	8.6	pH Meter
Moisture	%	0.11	0	0.4	Karl Fischer
Heavy Metals As Pb	ppm	1.5	—	5	ICP-MS (as Pb)
Iron	ppm	3	0	10	ICP
Chloride Cl	%	0.0049	0	0.1	ICP
Sulfate (SO_4^{2-})	%	0.021	0	0.2	ICP-MS
Insoluble Matter	%	0.0052	0	0.05	Gravimetric

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	White crystalline powder	Odor	Odorless
Form	Solid	Boiling Point	Decomposes on heating by CO_2 loss
Melting / Freezing Point	856°C (1573°F)	Specific Gravity	2.532
Solubility	Soluble in water, insoluble in alcohol	Molecular Formula	CNa_2O_3
Molecular Weight	105.988 g/mol	Density (25°C)	2.53 g/mL

APPLICATIONS

- Industrial** — Used as a flux in the production of glass to lower the melting point of silica.
- Environmental** — Utilized for pH adjustment and as a buffering agent in water treatment processes.
- Chemical Manufacturing** — Acts as a builder in detergent formulations to enhance cleaning efficiency.
- Food Industry** — Used in food processing as a pH regulator and stabilizer.
- Textile** — Serves as a dye fixative and pH adjuster in textile manufacturing.

STORAGE & HANDLING

- Store in a cool, dry place away from moisture.
- Use appropriate personal protective equipment (PPE) such as gloves and goggles.
- Avoid contact with acids to prevent exothermic reactions.
- Ensure proper ventilation in storage areas to minimize dust accumulation.
- Compatible with HDPE containers for storage.

AVAILABLE PACKAGING

- 2 lbs.
- 5 Lbs.
- 50 Lbs.

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: Warning



Hazard Statements:

- H319: Causes serious eye irritation [Warning Serious eye damage/eye irritation]

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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