

Soda Ash

CAS 497-19-8 · Na_2CO_3 · 99.2% min / 99.2% min

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1. Product identity

Product name	Soda Ash
Synonyms	sodium carbonate, washing soda, soda ash light, soda ash dense
C.A.S. number	497-19-8
Molecular formula	Na_2CO_3
Molecular weight	105.99 g/mol
Grade supplied against	99.2% min / 99.2% min
Appearance	White, odourless, hygroscopic solid — free-flowing granules in the dense grade, fine powder in the light grade
Product group	Alkalis & Bases
HSN code	2836 20 20 / 2836 20 10
Country of origin	As stated on the producer's documents for the lot supplied; confirmed at offer stage
Packing	50 kg bag · 1 MT jumbo / 50 kg bag · 1 MT jumbo
Storage	Store in a cool, dry, well-ventilated area in tightly closed, moisture-proof HDPE-lined bags, big bags or sealed silos, away from acids, moisture and aluminium. Sodium carbonate is hygroscopic and cakes into hard lumps if it absorbs water or carbon dioxide, so protect against damp floors and rain ingress. Control dust generation during handling and transfer; use local exhaust ventilation and eye protection. Keep away from food and feedstuffs unless the grade is food grade and stored accordingly.

2. Analytical specification

S. No.	Test parameter	Specification	Method
1	Description	White, odourless, hygroscopic solid — free-flowing granules in the dense grade, fine powder in the light grade	Visual
2	Identification	Conforms to the substance supplied	Instrumental or chemical test, per method agreed
3	Assay / grade	99.2% min / 99.2% min	Titrimetry or instrumental, per method agreed
4	Physical state	Solid (granular or powder)	Visual
5	Solubility in water	217-220 g/L at 20 C (Sigma-Aldrich 217 g/L; Panreac 220 g/L) — freely soluble; dissolution is exothermic. ILO ICSC 1135 quotes a higher figure of 30 g/100 mL at 20 C	Per the test method agreed

S. No.	Test parameter	Specification	Method
6	pH	12 at 106 g/L (approximately a 10% w/v solution) at 25 C (Sigma-Aldrich SDS). Tata Chemicals quotes 11.6 without stating the concentration	Potentiometry on an aqueous suspension
7	Relative density	2.53 g/cm ³ true density at 20 C (Sigma-Aldrich 2.532; Panreac 2.533). Bulk density of dense grade 1.00-1.10 g/cm ³ (62.4-68.6 lb/ft ³ , Tata Chemicals dense ash datasheet); bulk density of the light grade is lower and grade-specific — Not available, take it from the producer datasheet	Pyknometry or gas displacement
8	Melting / freezing point	851 C (ILO ICSC 1135); 854 C (Panreac SDS)	Thermal analysis
9	Boiling point	Not applicable — sodium carbonate decomposes on strong heating rather than boiling; ILO ICSC 1135 and Panreac give no boiling point. Sigma-Aldrich quotes 1600 C	Distillation range
10	Flash point	Not flammable (non-combustible)	Not applicable — the substance is not combustible
11	Additional parameters	To the specification agreed before order	As agreed

3. Transport classification

Not regulated for transport · Class Not regulated for transport · Packing group Not regulated for transport

Proper shipping name: Not regulated for transport

What this document is. This is a product specification sheet. It states the grade this material is supplied against, its packing and its identity. **It is not a certificate of analysis, it carries no test results, and it certifies no batch.** Tested values for the consignment actually loaded appear on the batch certificate of analysis issued against that batch, which travels with the despatch documents. Identity and physical data are drawn from PubChem, the ECHA CLP inventory and ILO safety cards; the producer's documents for the grade quoted govern. Velora Chemicals Private Limited is a bulk supplier and trader, not a manufacturer.