

## Specifications

Appearance	Fine, White, Hygroscopic, Crystalline Powder
Chemical Name	Sodium Carbonate Soda Ash Soda
Chemical Formula	Na <sub>2</sub> CO <sub>3</sub>
Trade Name	Soda Ash Light
Molecular Weight	105.99 g/mol
CAS No.	497-19-8

## Properties

Soda is hygroscopic. When stored for longer periods CO<sub>2</sub> and water may be absorbed depending on ambient conditions (increase in weight of up to 17 %). In aqueous solution soda is strongly alkaline. When anhydrous soda is dissolved heat is liberated. In contrast, when a concentrated solution of soda is diluted with water heat is taken up and the solution cools down.

	Soda Ash Light	Sodium Carbonate Dense Grade
Bulk Density	600-700 kg/m <sup>3</sup>	Min 1100 kg/m <sup>3</sup>
Melting Point	854°C	854°C
Decomposition	At approx 1000°C clearly measurable cleavage of CO <sub>2</sub>	At approx 1000°C clearly measurable cleavage of CO <sub>2</sub>
Solubility in Water (20°C)	212 g/l or 21.5 g/100g	212 g/l or 21.5 g/100g
pH (at 10 g/l H <sub>2</sub> O)	11.5	11.5

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Parameter	Unit	Typical Value	Specification	Test Method
Na <sub>2</sub> CO <sub>3</sub>	g/100 g	99.8 Min	99.5	Titration
Cl <sup>-</sup>	g/100 g	0.10 Max	0.15	Titration
Ca	mg/kg	10 - 14 Max	80	ICP
Cd	mg/kg	-	< 2	ICP
Cr	mg/kg	-	< 2	ICP
Fe	mg/kg	3 Max	10	Colorimetry
Hg	mg/kg	-	< 0.1	ICP
Mg	mg/kg	25 Max	50	ICP
NH <sub>4</sub>	mg/kg	230 Max	300	Titration
Ni	mg/kg	-	< 2	ICP
Average Particle Size Distribution				
0.125 – 0.250 mm	g/100g	20 - 35	-	Sieving
0.063 – 0.125 mm	g/100g	20 - 30	-	Sieving
< 0.063 mm	g/100g	20 - 35	-	Sieving

The purity of this product fulfils the specification's limits of the norm DIN EN 897 for the intended treatment of water for human consumption.

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