



# Product Specification

## Product Name: SODIUM CARBONATE Decahydrate LR

Alternate Name(s) Soda ash; Washing soda; Soda; Dry alkali; Sal soda; Calcined soda;  
Description Carbonic acid, disodium salt; Solvay soda; Bisodium carbonate; Soda  
White crystals, grayish-white powder or lumps. Odourless.

### Properties

Chemical Formula:  $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$   
Molecular Weight: 286.14

Product Code: SL042  
CAS No. 6132-02-1

### General Information:

Soluble in glycerol. Insoluble in alcohol. Incompatible with strong acids, water, alkaline earth metals (powder), organic nitro compounds, alkali metals, nonmetallic oxides/heat. Non combustible material.

### Quality Specification

Assay: 99% min.

### Specific Properties and Impurities [Typical levels]:

Specific Gravity	1.44
Solubility in Water	210 g/L (20°C)
pH Value (50 g/L, H <sub>2</sub> O, 25 °C)	11 - 12
Melting Point	33°C
Appearance of solution	Passes test
Chlorides (Cl)	≤ 0.005%
Sulfates (as SO <sub>4</sub> )	≤ 0.01%
Alcalihydroxides & alcalihydrogencarbonates	Passes test
Heavy metals (as Pb)	≤ 0.002%
Loss on Drying	55 - 65%
Residual Solvents (Ph Eur/ICH)	Excluded by production proc
Arsenic (As)	≤ 0.0002%
Copper (Cu)	≤ 0.0025%
Iron (Fe)	≤ 0.002%
Lead (Pb)	≤ 0.0005%
Mercury (Hg)	≤ 0.0001%
Zinc (Zn)	≤ 0.0025%

### Hazard and Safety Data

UN Group: None Allocated  
Class: None Allocated  
UN Number: None Allocated  
Hazchem code: None Allocated  
CS MSDS Code: 1CH68  
Poison schedule: S5  
Emergency Procedure Guide No.: N/A

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