

Technical Data

# FMC Grade 160 Soda Ash

CAS No. 497-19-8

**Chemical Name** Sodium Carbonate, anhydrous

**CAS Name** Disodium carbonate

**Formula** Na<sub>2</sub>CO<sub>3</sub>

**Molecular Weight** 105.99

## Physical Properties

	Typical	Specification
Bulk Density: lb/ft <sup>3</sup>	59	54 - 62
g/cm <sup>3</sup>	0.95	0.86 - 0.99
Particle density, g/cm <sup>3</sup>	1.826	
Particle shape	Needle-like	
Angle of repose, deg	52	
Screen analysis, cumulative wt %		
On US 30 (600 μm)	0.5	
US 40 (425 μm)	9	15 max
US 100 (150 μm)	89	
Thru US 200 (75 μm)	2	6 max

## Chemical Properties

	Typical	Specification
Na <sub>2</sub> O, wt %	58.4	58.0 min
Na <sub>2</sub> CO <sub>3</sub> , wt %	99.8	99.2 min
Na <sub>2</sub> SO <sub>4</sub> , wt %	0.06	0.20 max
NaCl, wt %	0.03	0.20 max
Fe <sub>2</sub> O <sub>3</sub> , ppm	7	20 max
Water insolubles, wt %	0.01	0.05 max
Ignition loss, wt %	0.1	
Heavy metals (as Pb), ppm	<10	
As, ppm	0.1	
Ca, ppm	150	
Mg, ppm	50	
SiO <sub>2</sub> , ppm	70	

## General Properties

Description	white granular solid
Melting point, °C (°F)	851 (1564)
Solubility, max % @ 35.4°C	33.2
pH, 1% solution @ 25°C	11.4

**Standard Containers** Bulk hopper cars and trucks

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