

# Sodium carbonate

## Feed grade

### Identification

Chemical name:	Sodium carbonate	CAS-No:	497-19-8
Chemical formula:	Na <sub>2</sub> CO <sub>3</sub>	EC no:	207-838-8
Molecular weight:	106,0 g/mol		

### EC Registration

Feed stuff: Feedstuff. Ref. Commission Reg. (EU) No 575/2011 of 16 June 2011

### Specification, nutrients

Additive/nutrient	Content	Analytical method
Na <sub>2</sub> CO <sub>3</sub>	> 99 %	
Solubility	> 96 %	water at 20°C in g/1000 g (endothermic)
Loss on drying	1 % max	

### Physical specifications

Composition:	
Appearance:	Free fluent crystalline powder
Partikel size:	0,1 – 1,0 mm: > 95% of particles.
Bulk density:	1000 g/L ± 10%
Shelf life:	Min. 12 months left at date of delivery.
Certificate:	Certificate of analysis on each batch in every delivery.

### Undisrable substances

Compliance with EU Directive 2002/32/EC.

Substance	Max. content	EU legislation	Comment
Arsenic	1,2 ppm	2 ppm	
Cadmium, Cd	0,6 ppm	1 ppm	
Lead, Pb	7 ppm	10 ppm	
Mercury, Hg	0,06 ppm	0,1 ppm	
Dioxins, PCDDs and PCDFs <sup>1)</sup>	0,5 ng/kg	0,75 ng/kg	WHO-PCDD/F-TEQ/kg <sup>2)</sup>
Dioxin-like PCBs <sup>1)</sup>	0,35 ng/kg	0,5 ng/kg	WHO-PCDD/F-PCB-TEQ/kg (ppt) <sup>2)</sup>
Non dioxin-like PCBs <sup>3)</sup>	6 µg/kg	10 µg/kg	ICES – 6 <sup>2)</sup>

<sup>1)</sup> Dioxins: Sum of polychlorinated dibenzo-*para*-dioxins (PCDDs) and polychlorinated dibenzofurans (PCDFs)

Dioxin-like PCBs: Polychlorinated biphenyls (PCBs). WHO-TEFs (toxic equivalency factors), 2005

<sup>2)</sup> Upper-bound concentrations. Relative to a feed with a moisture content of 12 %

<sup>3)</sup> Sum of PCB 28, PCB 52, PCB 101, PCB 138, PCB 153 and PCB 180