

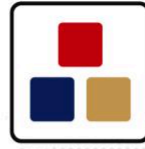
**BORTECH**  
DIS TICARET LIMITED SIRKETI

## SODIUM BICARBONATE (FOOD GRADE)

<b>Chemical Name</b>	Sodium Bicarbonate
<b>Chemical Formula</b>	NaHCO <sub>3</sub>
<b>Molecular Weight</b>	84.01 g/mol
<b>CAS No</b>	144-55-8
<b>EC No</b>	205-633-8
<b>Origin</b>	Natural Trona Ore
<b>Synonyms</b>	Sodium Hydrogen Carbonate, Sodium Acid Carbonate, Baking Soda

### Chemical Properties

Parameter	Specification
NaHCO <sub>3</sub>	99.3 % min
Na <sub>2</sub> CO <sub>3</sub>	0.5 % max
Cl <sup>-</sup>	250 mg/kg max
SO <sub>4</sub> <sup>2-</sup>	300 mg/kg max
Water Insoluble Matter	500 mg/kg max
Pb / Lead	0.1 ppm max
As / Arsenic	0.1 ppm max
Hg / Mercury	0.1 ppm max
Cd / Cadmium	0.1 ppm max
Fe (Total)	10.0 ppm max
Solubility (60 °C)	15.60 g/100 ml water
Solubility (20 °C)	9.55 g/100 ml water
Solubility (0 °C)	5.55 g/100 ml water
pH (25 °C, 1% m/V solution)	8.0 – 8.6



**BORTECH**  
DIS TICARET LIMITED SIRKETI

Test for Sodium	Passes Test
Test for Carbonate	Passes Test
Loss on Drying (over silica gel, 4 hours)	≤ 0.25 %
Ammonium Salts	No odour of ammonia detectable after heating

### Physical Properties

Parameter	Specification
Bulk Density	0.95 – 1.25 g/cm <sup>3</sup>
Whiteness	L* = 95% (CIE Lab) min
Appearance	Free-flowing, white powder
Solubility	Soluble in water, insoluble in ethanol
Particle Size (+75 µm)	20 – 90 %
Particle Size (+45 µm)	60 – 100 %

### Microbiological Properties

Parameter	Specification
Salmonella	0 kob/25 g
Enterococcus	1×10 <sup>2</sup> kob/g max
Mould and Yeast	1×10 <sup>2</sup> kob/g max