



PRODUCT CODE: 631638

Sodium Hydrogen Carbonate (Ph. Eur, BP, USP) IPEC grade

CHNaO₃

NaHCO₃

M.= 84,01

CAS [144-55-8]

EINECS 205-633-8

TARIC 2836 30 00 00

SYNONYMS: Sodium Bicarbonate

PHYSICAL DATA: crystalline powder, White, Soluble in water 100 g/l at 20 °C Thermal decom. above 50 °C • D 2,159
• pH8,2 •

BIBLIOGRAPHY: Merck Index **13**, 8.655 Safety **2**, **3143 A** • Römp **8**, **2737** • Fieser **3260 5595** • ACS **XI** • ISO 6353/3-1987R - 89 , 65 • BP.**2021** • USP **43** • Ph. Eur. **9.0** (2017) **10.0** (2020) • F.C.C **12 13** • BOE **243**(8-10-2009) • Regulation (EU) n° 231/2012 •

HAZARDOUS: RTECS: VZ 0950000 • LD50 oral rat 4.220 mg/kg •

SPECIFICATIONS:

Assay (Ph. Eur.) (Acidim.)	99,0-101,0%
Assay USP (Acidim) calc. a.d.s.	99,0-100,5%
Identity :	
Identity according to Pharmacopoeias:	
Identity Sodium	passes test
Identity Bicarbonate	passes test

Maximum limit of impurities

Appearance of solution	
Appearance Transparent < formazin 50	passes test
Appearance Colourless	passes test
Insoluble substances	passes test

Loss on drying	0,25%
Chloride (Cl)	0,015%
Sulfur compounds (SO ₄)	0,015%
Sulfate (SO ₄)	0,015%
Carbonate Ph. Eur., pH sol 5% < 8.6	passes test
Carbonate normal USP	passes test
Residual solvents (Ph.Eur/USP)	passes test
Ammonia USP	passes test
Ammonium Ph. Eur (NH ₄)	0,002%
As	0,0002%
Ca	0,01%
Fe	0,002%
Elemental impurities (ICH Q3D):	
Class 1	
Cd	0,5 ppm
Pb	5 ppm
As	2 ppm
Hg	1,5 ppm
Class 2A	
Co	5 ppm
V	10 ppm
Ni	20 ppm
Class 2B	
Tl	5 ppm
Au	10 ppm
Pd	10 ppm
Ir	10 ppm
Os	10 ppm
Rh	10 ppm
Ru	10 ppm
Se	15 ppm
Ag	15 ppm
Pt	10 ppm
Class 3	
Li	55 ppm
Sb	120 ppm
Ba	140 ppm
Mo	25 ppm
Cu	250 ppm
Sn	600 ppm
Cr	25 ppm