

Technical data

## Sodium Bicarbonate USP Powdered No. 1

CANADA COLORS & CHEMICALS LTD.
80 SCARSDALE ROAD
DON MILLS, ONTARIO
M3B 2R7

Meets United States Pharmacopeia and Food Chemicals Codex Specifications

Formula	NaHCO <sub>3</sub>	
Molecular weight	84.01	
Chemical Abstract Services		
Name	Carbonic Acid Monosodium Salt	
Number	144-55-8	
Particle size distribution		
Same and B.	Cumulative % Retained	
Screen size	Minimum	Maximum
USS 100 (150 microns)	0	2
USS 200 (75 microns)	20	50
USS 325 (45 microns)	60	100
General properties		
Bulk density, lb/ft³ (kg/m³)	64 (1025)	
Particle density, g/cm <sup>3</sup>	2.22	
oH of 1% solution @ 25°C (77°F)	8.3	
Appearance	White crystalline powder	
aste	Slightly alkaline	
hermal decomposition	Decomposes (without melting) into Na <sub>2</sub> CO <sub>3</sub> , H <sub>2</sub> O,	
,	and CO <sub>2</sub> .	
specifications and Requirements*		
	U.S.P.	F.C.C.
ssay (dry basis)	99.0%-100.5%	99% minimum
nsoluble substances	Meets USP test	Passes FCC test
oss on drying	0.25% max	0.25% max
mmonia	Meets USP test	Passes FCC test
rsenic	2 ppm max	3 ppm max (as As)
leavy metals	5 ppm max	5 ppm max (as Pb)
arbonate	Meets USP test	No FCC requirement
albonate		•
hloride (as Cl <sup>-</sup> )	150 ppm max	No FUL renuirement
	150 ppm max 150 ppm max	No FCC requirement
hloride (as Cl <sup>-</sup> )	150 ppm max 150 ppm max Responds to USP tests	No FCC requirement  No FCC requirement  Positive in FCC tests for

<sup>\*</sup> FMC sodium bicarbonate meets the proposed USP requirements for Organic Volatile Impurities.

Standard containers	50 lb (22.7 kg) bags
	100 lb (45.4 kg) bags
	Bulk hopper trucks
	Bulk hopper cars
*	One ton super saks
Uses	Cake mixes; cookies, crackers, candies, and brownies;
	doughs and batters; beverages; chemical manufacture;
	dentifrices; effervescent tablets; explosives manufacture;
	food colors and conditioners; pharmaceuticals;
	photographic chemicals; potable water treatment;
	textiles processing.

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