



FSSC 22000
KOSHER
cGMP

TRONOX BAKING SODA

THE NATURAL CHOICE APPROVED FOR ORGANIC USE

What makes Tronox sodium bicarbonate different? Made in the U.S.A., Tronox baking soda is natural, and is an OMRI Listed® (Organic Materials Review Institute) product allowed for use in certified organic operations under the USDA National Organic Program. Tronox mines naturally occurring trona ore and processes it to make a $\geq 99\%$ pure sodium bicarbonate. No preservatives, flavorings, colors, or vitamins are added to the product. So if your company offers or is considering offering premium product lines promoting natural or Made with Organic designations, Tronox sodium bicarbonate can help you meet your requirements, without a premium price.

Tronox Baking Soda: the Natural Choice for your Organic Products.

Baking soda is pure sodium bicarbonate. It is the basic component in virtually all leavening processes used in your favorite baked goods. Cakes, doughnuts, muffins, biscuits, cookies, pancakes, waffles, baking mixes, and frozen doughs all use sodium bicarbonate. Baking soda reacts with acids to release carbon dioxide gas in the form of bubbles within the dough. The CO_2 expands the dough during mixing and baking to provide increased volume and a pleasing texture to the baked goods. Baking soda also acts to buffer the dough, allowing the other ingredients of the mix to react properly. Sodium bicarbonate is also used as a leavening system in candies and in dry beverage mixes to create CO_2 when the desired liquid is added.

Baking Tip:

Make a fluffier omelet by adding $\frac{1}{2}$ teaspoon of baking soda for every three eggs.

Regulatory and Quality Standards

- All Tronox USP grades meet the United States Pharmacopeia and Food Chemicals Codex specifications for suitability in food applications.
- Tronox USP sodium bicarbonate is manufactured under cGMP meeting the U.S. Food and Drug Administration standards for food.
- Tronox sodium bicarbonate is GFSI certified, via FSSC 22000. In addition, sodium bicarbonate has been classified by the FDA as Generally Recognized As Safe (GRAS).
- OMRI Listed®
- GMO free

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Quality and Service

Our technical staff can answer questions on sodium bicarbonate's chemical and physical properties, material handling, certifications and can recommend appropriate grade selection for various end-uses.

Distribution and Warehousing

Tronox sodium bicarbonate is available from our Green River, Wyoming manufacturing site as well as warehouses across the US.

Packaging

Tronox sodium bicarbonate is offered in 50 lb bags, bulk bags, truckloads and bulk railcars to suit any size customer. Tronox Alkali produces several grades of sodium bicarbonate for the food industry to meet customer requirements.

Sodium Bicarbonate

Meets United States Pharmacopeia and/or Food Chemicals Codex Specifications
Not Intended for Active Pharmaceutical Ingredient (API) Use

Formula	NaHCO ₃					
Molecular Weight	84.01					
Chemical Abstract Services						
Name	Carbonic Acid Monosodium Salt					
Number	144-55-8					
Particle Size Distribution		Cumulative % Retained (MIN/MAX)				
	USS 60	USS 80	USS 100	USS 170	USS 200	USS 325
USP#1			0/2		20/45	60/100
#1 TFF			0/2		20/45	60/100
USP#2		0/1	0/2		70/100	90/100
USP#5	0/30		50/100	90/100		
General Properties						
Typical bulk density, lb/ft ³ (kg/m ³)	66 (1057) [#1 TFF is 67 (1073)]					
Particle density, g/cm ³	2.22					
pH of 1% solution @ 25°C (77°F)	8.3					
Appearance	White crystalline powder					
Thermal decomposition	Decomposes (without melting) into Na ₂ CO ₃ , H ₂ O, and CO ₂					

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