



Purox^S grains

pure grade sodium benzoate

CAS No.: 532-32-1 EC No.: 208-543-8

C₆H₅CO₂Na

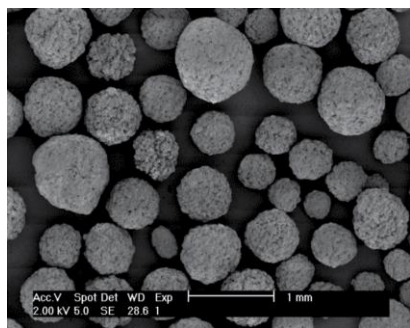
NF / FCC / EP / BP / JP

High purity preservative with an effective combination of antimicrobial action, low cost, safety, and excellent odor/taste profile.

Applications include:

- **Beverages, such as soft drinks**
- **Feed silage preservation**
- **Foods, such as:**
 - Prepared salads
 - Jams and jellies
 - Dressings, sauces, and condiments
 - Pickles
 - Olives
- **Personal Care & Cosmetics**
- **Pharmaceutical Inactive Ingredients**
- **Oral Care Products**

The narrow particle size distribution of Purox S offers consistent processing characteristics, with dust-free production and good dissolution properties.



Purox[®] S: Sodium Benzoate of Outstanding Purity

Purox S is a safe, effective solution to **control yeasts, molds, and bacteria at pH levels up to 6.5** when used alone or in combination with other preservatives. It is the **highest purity commercially available** (99.9% minimum) and is virtually **odorless and colorless**. Purox S also has a **consumer-friendly chemistry profile for personal care**: low toxicity, non-irritating, non-sensitizing, readily biodegradable, and authorized for use in green label certification programs, such as **Ecocert, Ecolabel, and Nordic Swan**.

Outstanding Properties for Superior Performance in Products and Processes

Thanks to a unique shaping process, Purox S has almost perfectly round particles with a narrow particle size distribution. The result of this tailor-made particle size distribution is an optimal combination of low dust content, high flow and excellent dissolution properties.

Serving Our Customers Globally from Our Facilities in Europe and the U.S.

Emerald is a leading and reliable global supplier of sodium benzoate, as well as benzoic acid, benzaldehyde, and other related chemistries. We used the highest standards for quality and responsible manufacturing at our strategically located sites in the U.S. and Europe, operating under ISO 9001:2015, ISO 14001:2015, FSSC 22000, and FAMI-QS management programs.

Permitted Use Levels in Foods: Maximum level of E211 (mg/kg or mg/l)

Non-alcoholic flavored drinks	150
Spirits (<15% ABV)	200
Low-sugar jams, jellies, marmalades, and similar low-calorie or sugar-free products or other fruit-based spreads	500
Alcohol-free beer	200

Permitted Use Levels in Cosmetics: Cosmetic Regulation (Annex V)

Rinse-Off	3.0 %
Oral Care	2.0 %
Leave-On	0.6 %

Emerald Performance Materials[®]
Kalama Chemical

Purox^S grains

pure grade sodium benzoate

Characteristic	Spec. Range	Unit
Form	White grains, dust-free	
Taste and odor	No off taste or odor	-
Assay (on dried product)*	99.9 min.	% (m/m)
Loss on drying	1.0 max.	% (m/m)
Color (10% [m/m] solution in water)	10 max.	APHA
Acidity	0.40 max.	mg NaOH/g
Alkalinity	0.37 max.	mg HCl/g
Phenol	2 max.	mg/kg
Insoluble matter	To pass test	-
Heavy metals	< 10	mg/kg
Iron	< 1	mg/kg
Mercury	< 0.1	mg/kg
Sulphate as SO ₄ ²⁻	< 50	mg/kg
Chloride, as Cl ⁻	< 50	mg/kg
Halogenated compounds, as Cl ⁻	< 25	mg/kg
Total chlorine, as Cl ⁻	< 75	mg/kg
Turbidity (of a 10% [m/m] solution in water)	< 0.5	NTU
Oxidizable substances	< 0.1	ml 0.02 mol KMnO ₄ /g
Organic volatile impurities	To pass test	-
Polycyclic acids	To pass test	-
Phthalic acid	50 max.	mg/kg

Packaged to Meet Your Process Needs

Purox[®] S grains are available in a choice of packaging formats to meet specific process requirements.

The product is packaged in robust, tamper-proof 25 kg form-fill-sealed polyethylene bags filled on an automated packaging line. This packaging protects Purox S against contamination and guarantees an extended shelf life by excellent moisture barrier properties.

Purox S is also available in bulk quantities of 650 kg and 1,000 kg in high-quality big bags.

About Emerald

Emerald Kalama Chemical is a leading global supplier of benzoic acid, benzaldehyde, and related downstream chemistries, with world-scale, backward integrated facilities in Kalama, Washington (USA); Rotterdam, Netherlands; and Widnes, UK. Products include benzoate preservatives, intermediates, high purity flavor and fragrance ingredients, plasticizers, coalescents, antioxidants, and accelerators. With manufacturing in the United States and Europe and a global sales and distribution network, we serve customers globally.

Purox S is also available through our distribution partners. Please contact us for additional information.

SHELF LIFE: 3 YEARS

Purox S meets the requirements of FCC, USP/NF, Ph.Eur, BP, JP, E211 and is certified Kosher, Kosher for Passover, and Halal. It is covered by certifications for FSSC 22000 and FAMI-QS. Purox S is not authorized for use in applications governed by BPR.

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