

Product Specification Sheet



Sales Specification
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Kalama® Sodium Benzoate NF/FCC

CAS REGISTRATION NUMBER: 532-32-1

EINECS REGISTRATION NUMBER: 208-534-8

SALES SPECIFICATIONS – NATIONAL FORMULARY / FOOD CHEMICALS CODEX GRADE:

IDENTIFICATION (NF/FCC)	Passes NF & FCC Tests (Tests A, B, and C)
ASSAY (NF/FCC)	99.0% - 101.0% of C ₇ H ₅ NaO ₂ , calculated on the anhydrous basis
ALKALINITY (NF/FCC)	Not more than 0.04%, as NaOH
HEAVY METALS (NF)	Not more than 10 mg / kg (as Pb)
ARSENIC	Not more than 3 mg / kg
LEAD (FCC)	Not more than 2 mg / kg
WATER (NF/FCC)	Not more than 1.5% (wt)
RESIDUAL SOLVENTS	Passes NF Limit Tests

SALES SPECIFICATIONS – EUROPEAN PHARMACOPEIA GRADE:

IDENTIFICATION	Responds to EP tests for Sodium and Benzoate
ASSAY (by EP Method)	NLT 99.0 and NMT 100.5% of C ₇ H ₅ NaO ₂ , calculated with reference to the dried substance
ALKALINITY	Not more than 0.2 mL of 0.1 M HCl per 20 mL of a 5% (w/v) solution. (0.08% as NaOH)
ACIDITY	Not more than 0.2 mL of 0.1 M NaOH per 20 mL of a 5% (w/v) solution. (0.244% as Benzoic)
CLARITY OF SOLUTION	10% (w/v) solution is clear
COLOUR OF SOLUTION	Not more intensely coloured than reference solution.
HEAVY METALS (as Pb)	Not more than 10 mg / kg.
HALOGENATED COMPOUNDS	
Ionised chlorine	Passes EP Test (limit is 200 ppm)
Total chlorine	Passes EP Test (limit is 300 ppm)
LOSS ON DRYING	When dried to a constant weight @ 100 to 105° C, not more than 2.0% of its weight is lost.
RESIDUAL SOLVENTS	Passes Limit Tests

SALES SPECIFICATIONS – EEC E-211 GRADE:

IDENTIFICATION	Passes Tests
ASSAY	Not less than 99% on the anhydrous basis
LOSS ON DRYING	Not more than 1.5% @105° C

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ALKALINITY	Not more than 0.25 mL of 0.1 N HCl per 1 g of sample
ACIDITY	Not more than 0.25 mL of 0.1 N NaOH per 1 g of sample
CHLORINATED ORGANIC COMPOUNDS	Not more than 0.06% (as chlorine)
READILY OXIDIZABLE SUBSTANCES	Passes Limit Test
POLYCYCLIC ACIDS	Passes Test
ARSENIC	Not more than 3 mg/kg
LEAD	Not more than 2 mg/kg
MERCURY	Not more than 1 mg/kg

TYPICAL PARTICLE SIZE DISTRIBUTION:

POWDER FORM	20 to 50% through an 80 mesh screen
DENSE FORM	3 to 6% through an 80 mesh screen
EDF™ FORM	~1% through a 60 mesh screen

PACKAGING:

Sodium Benzoate from Emerald Kalama Chemical, LLC is available in the following standard packages:

DENSE form is packaged as follows:

- A) In poly-ethylene bags, each containing 25 Kg of product. The pallet and contents are "stretch-wrapped" with poly-ethylene film. Typically, 1,000 Kg (8 rows high by 5 bags per row) are placed upon a 4-way entry type non-returnable pallet. This "stretch-wrapped" pallet has dimensions of ~55" high by 40" wide by 48" deep.
- B) In poly-lined woven polypropylene flexible intermediate bulk containers (FIBC); each containing 1000 Kg of product. Each FIBC is placed upon a non-returnable pallet and the pallet and FIBC are then "stretch-wrapped" with poly-ethylene film.

POWDER form is packaged as follows:

- A) In poly-ethylene bags, each containing 25 Kg of product. Typically, 1,000 Kg are placed upon a non-returnable pallet (4-way entry type). The pallet and bags are then "stretch-wrapped" with poly-ethylene film.

EDF is packaged as follows:

- A) In poly-lined paper bags, each containing 25 Kg of product. Typically, 1,000 Kg are placed upon a non-returnable pallet (4 way entry type). The pallet and bags are then "stretch-wrapped" with poly-ethylene film.
- B) In poly-lined woven polypropylene flexible intermediate bulk containers (FIBC), each containing 500 Kg of product. Each FIBC is placed upon a non-returnable pallet and the pallet and FIBC are then "stretch-wrapped" with poly-ethylene film.

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Emerald Kalama Chemical is a world-scale producer of a variety of toluene oxidation products, with production facilities in the US and Europe. Products include benzoic acid, various benzoate and dibenzoate ester, alcohol and aldehyde derivatives for food preservatives, flavor and fragrance ingredients, plasticizers and industrial applications. Emerald Kalama Chemical is a division of Emerald Performance Materials, a manufacturer of additives and polymers which make your products last longer, look, taste, smell, or perform better. Emerald is headquartered in Vancouver, WA. The company has two business units, six operations and approximately 700 employees. For more information, please contact us.

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