

Kalama® Sodium Benzoate NF/FCC

CAS REGISTRATION NUMBER: 532-32-1

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

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

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
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

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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-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.

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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