

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



TECHNICAL DATA SHEET NABZ

PRODUCT CLASSIFICATION

Item	Description
Chemical Name	Sodium Benzoate
Grade Name	NABZ Micronised
CAS No.	532-32-1
HS Code	2916.31.11.70
EINECS No.	208-534-8
Molecular Formula	$C_7H_5NaO_2$
Molecular Weight	~144.11 g/mol
Synonyms	Benzoic acid sodium salt, E211

PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White crystalline or micronized powder	Visual
Odor	Odorless	Sensory
Purity	≥ 99.0% (on dry basis)	Titration / HPLC
pH (1% solution)	7.0 – 8.5	pH meter
Loss on Drying	≤ 2.0%	Oven drying at 105 °C
Melting Point / Decomposition	~300 °C (decomposes)	Literature
Solubility in Water	Soluble (63 g/100 mL at 25 °C)	Literature
Solubility in Alcohol	Slightly soluble	Observation
Bulk Density	0.40 – 0.60 g/cm ³	Tapped Density
Particle Size (Micronized D50)	3 – 5 µm	Laser Diffraction

➤ The commercial product specification may include only a selection of the properties listed above; this additional data is provided for general technical reference.

HEAVY METALS (EU REGULATION 10/2011 – CONTENT LIMITS IN ADDITIVES)

Element	Typical Limit	Test Method
Lead (Pb)	≤ 2 ppm	ICP, AAS, XRF
Cadmium (Cd)	≤ 1 ppm	ICP, AAS
Mercury (Hg)	≤ 1 ppm	ICP, CV-AAS
Arsenic (As)	≤ 1 ppm	ICP, AAS

USES / APPLICATION

Industry	Commercial Application / Uses
Plastics & Polymers	Acid scavenger, nucleating agent for polyolefins
PVC & Rubber	Heat stabilizer synergist, dehydrochlorination control

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Coatings & Adhesives	Moisture scavenger, pH buffer, preservative
VCI Films / Masterbatches	Active ingredient in anti-corrosion formulations
Food Packaging (indirect)	Functional additive in non-contact polymer systems

US FDA 21 CFR LISTING

CFR Section	Title / Description
182.3733	GRAS – Preservative
175.105	Adhesives – food contact permitted
178.3297	Clarifying agents and stabilizers for polymers

COLOUR IMPACTING IMPURITIES

Element	Typical Max Limit (ppm)	Test Method
Iron (Fe)	≤ 50 ppm	ICP, AAS, XRF
Manganese (Mn)	≤ 10 ppm	ICP, AAS, XRF
Copper (Cu)	≤ 10 ppm	ICP, AAS, XRF
Nickel (Ni)	≤ 5 ppm	ICP, AAS, XRF
Chromium (Cr)	≤ 5 ppm	ICP, AAS, XRF

PRODUCT PERFORMANCE IMPACTING IONS / IMPURITIES

Ion / Element	Typical Max Limit (ppm)	Test Method
Potassium (K)	≤ 100 ppm	ICP, AAS
Calcium (Ca)	≤ 200 ppm	ICP, AAS
Chloride (Cl ⁻)	≤ 100 ppm	Ion Chromatography
Sulfate (SO ₄ ²⁻)	≤ 100 ppm	Ion Chromatography

Disclaimer:

This product is intended for industrial use in polymer, coating, or specialty chemical applications. It is not recommended for pharmaceutical or direct food use unless separately certified. Compliance with food-contact and regional regulatory approvals must be verified by the user. Values above are typical for general reference and not binding specifications unless explicitly confirmed in writing.

Month of Creation: July 2025

Month of Review: July 2027