

# Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalaremprikiat, 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

### POTASSIUM BENZOATE (MICRONIZED)

#### PRODUCT CLASSIFICATION

Item	Description
Chemical Name	Potassium Benzoate
CAS No.	582-25-2
HS Code	2916.31.90
EINECS No.	209-481-3
Molecular Formula	$C_7H_5KO_2$
Molecular Weight	~160.21 g/mol
Synonyms	Benzoic acid potassium salt

#### PHYSICAL & CHEMICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White to off-white 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	≤ 1.5%	Oven drying at 105 °C
Melting Point	Decomposes before melting (~200–220 °C)	Literature / DSC
Solubility in Water	Highly soluble (approx. 650 g/L at 25 °C)	Literature
Solubility in Alcohol	Slightly soluble	Observation
Bulk Density	0.45 – 0.65 g/cm <sup>3</sup>	Tapped Density
Particle Size (D50)	3 – 5 μm	Laser Diffraction
Particle Size (D90)	< 20 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

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## USES / APPLICATION

Industry	Commercial Application / Uses
Polyolefins & Engineering Plastics	Solid-phase acid scavenger for PP / PE systems; neutralizes trace acidic residues during processing
PVC & Rubber	Secondary stabilisation support in dry blends; contributes to improved formulation consistency
Masterbatch & Compounds	Component in micronised additive blends; enables uniform dispersion and consistent dosing in masterbatch systems
Specialty Polymers	Enhances dispersion uniformity in fine particle systems and multi-component additive formulations
Additive One-Pack Systems	Used in pre-blended additive packages (e.g., benzoate-based systems); supports homogeneity and storage stability
Processing Aids (Powder Systems)	Improves powder flow, feeding behavior, and melt incorporation consistency during compounding
Dry Blend / Powder Handling	Anti-caking and flow conditioning agent in micronised powder systems; reduces agglomeration during storage and handling
Functional Fillers & Mineral Systems	Acts as surface interaction modifier in fine particle blends; supports dispersion behavior in filled systems
Mineral & Salt Processing (Niche Industrial)	Used as conditioning agent in electrostatic separation processes to modify surface charge behavior and improve separation efficiency
Coatings / Adhesives (Solid Formulations)	Modifier in solid or powder-based systems; supports formulation stability in non-aqueous applications

## US FDA 21 CFR LISTING

CFR Section	Title / Description
GRAS	Listed under US FDA 21 CFR 184.1613 as Generally Recognized As Safe (GRAS) for use as a food preservative under GMP conditions.  For polymer and industrial applications, regulatory compliance must be evaluated separately by the user.

## 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