

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakit, 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

add
polymer

TECHNICAL DATA SHEET NEOPENTYLGLYCOL DIBENZOATE (MICRONIZED)

PRODUCT CLASSIFICATION

Chemical Name	NEOPENTYLGLYCOL DIBENZOATE (MICRONIZED)
CAS No	4196-89-8
HS Code	2916.31.90
EINECS No	224-069-1
Molecular Formula	C ₁₈ H ₂₀ O ₄
Molecular Weight	300.35 g/mol
Synonyms	NPG Dibenzooate, 2,2-Dimethyl-1,3-propanediol dibenzooate

TECHNICAL PROPERTIES

Property	Typical Value / Description	Test Method
Appearance	White to off-white powder	Visual
Odor	Mild ester odor	Sensory
Melting Point	43 – 46 °C	Capillary Method
Moisture Content	≤ 1.0%	Oven Drying at 105 °C
Bulk Density	0.35 – 0.50 g/cm ³	Tapped Density
Solubility in Water	Insoluble	Visual Observation
Solubility in Organic Solvents	Soluble in esters, ketones, chlorinated solvents	Gravimetric/Visual
pH (10% in ethanol-water)	6.0 – 7.5	pH Meter
Particle Size (D50)	Typically, 10 – 14 µm	Laser Diffraction
Particle Size (D99)	Typically, < 40 µm	Laser Diffraction

➤ The commercial specification may include only a subset of these values. Listed data is for technical reference.

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

Element	Typical Max Limit (ppm)	Test Method
Lead (Pb)	≤ 5 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

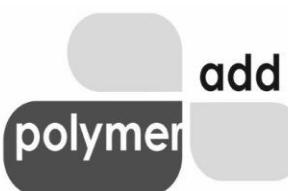
Industry	Commercial Application / Uses (Micronized Grade)
Plastics	Primary plasticizer in flexible PVC and polar polymers
Adhesives	Modifier in hot melt and pressure-sensitive adhesive formulations

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Inks & Coatings	Plasticizer for nitrocellulose-based inks and coatings
Flooring & Films	Used in vinyl flooring, film processing, and sealant formulations
Construction	Intermediate in reactive binder systems and filled polymer composites

US FDA 21 CFR LISTING

CFR Section	Title / Description
175.105	Adhesives – permitted for indirect food contact
176.180	Components of paper/paperboard in contact with dry food
177.1680	Polyurethane resins (indirect food additives)

COLOUR IMPACTING IMPURITIES

Element	Typical Max Limit (ppm)	Test Method
Iron (Fe)	≤ 150 ppm	ICP, AAS, XRF
Manganese (Mn)	≤ 50 ppm	ICP, AAS, XRF
Copper (Cu)	≤ 20 ppm	ICP, AAS, XRF
Nickel (Ni)	≤ 20 ppm	ICP, AAS, XRF
Chromium (Cr)	≤ 10 ppm	ICP, AAS, XRF

PRODUCT PERFORMANCE IMPACTING IMPURITIES

Ion / Element	Typical Max Limit (ppm)	Test Method
Sodium (Na)	≤ 150 ppm	ICP, AAS, XRF
Potassium (K)	≤ 100 ppm	ICP, AAS, XRF
Calcium (Ca)	≤ 300 ppm	ICP, AAS, XRF
Magnesium (Mg)	≤ 200 ppm	ICP, AAS, XRF
Chloride (Cl ⁻)	≤ 50 ppm	Ion Chromatography
Sulphate (SO ₄ ²⁻)	≤ 50 ppm	Ion Chromatography

Product Disclaimer:

This product is intended for industrial use. Values shown are typical and not guaranteed specifications unless explicitly agreed in writing. Suitability should be verified under actual use conditions. Not intended for medical or pharmaceutical applications.

Month of Creation: July 2025

Month of Review: July 2027