

Zinc Ricinoleate

Odor Absorber

PRODUCT IN FOCUS



Zinc Ricinoleate

INTRODUCTION

Zinc ricinoleate is the zinc salt of ricinoleic acid, a hydroxylated fatty acid derived mainly from castor oil (*Ricinus communis*). It appears as a white to slightly yellowish powder, waxy solid, or paste, depending on formulation. Its most valuable property is its ability to trap and absorb odor molecules such as amines, sulfides, and short-chain fatty acids, making it an essential ingredient in deodorant and odor-control products.

MANUFACTURE

- Raw Material Preparation:** Ricinoleic acid is separated from castor oil through hydrolysis and purification.
- Neutralization Reaction:** Purified ricinoleic acid is reacted with zinc oxide or zinc salts in a controlled process. The reaction produces zinc ricinoleate as a zinc soap (a metal salt of fatty acid).
- Finishing & Standardization:** The product is dried and processed into either powder, flakes, or pastilles.

APPLICATIONS

Personal Care & Cosmetics

- Deodorants & Antiperspirants – Acts as an odor absorber by binding volatile malodorous compounds.
- Foot creams, body lotions, hair care products – Used for odor-control function without irritating skin.
- Natural & eco-friendly formulations – Popular in “green” cosmetics because of biodegradability and renewable origin.

Household & Industrial Uses

- Air fresheners & room sprays – Neutralizes odors from smoking, cooking, or pets.
- Textile & laundry care – Incorporated in detergents and fabric conditioners for odor control.
- Industrial cleaning products – Used in waste treatment, sanitation, and odor-management formulations.

Specialty Applications

- Pet care products – Effective in shampoos, sprays, and litter deodorants.
- Paints & coatings – Sometimes added for odor-reducing functionality.

Synonym	(9Z,12R)-12-Hydroxy-octadecenoic acid zinc salt (2:1)
CAS no.	13040-19-2
EINECS no.	235-911-4
Molecular formula	$C_{36}H_{66}O_6Zn$
Molecular weight	660.29
Structure	

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SPECIFICATIONS

Test	Unit	Specification
Appearance	-	Creamish to white powder
Melting point	°C	Min 85
Metal content (as Zn)	%	8.5 – 9.5
Acid value	-	Max 4
Moisture	%	Max 2

PACKING

25 kg bag or 50 kg carboy.

STORAGE

Store in cool, dry well-ventilated area.

CERTIFICATION

Zinc ricinoleate offered by ExSyn is registered under EU REACH regulation.

ExSyn offers Zinc ricinoleate on commercial scales and welcomes enquiries. Our exceptional quality and service will make ExSyn your supplier of choice! If you need any additional information or SDS, please contact us.