enzymes.bio

Add enzymes. Add value.

TECHNICAL DATA SHEET

TDS-ENZ307-EN · REV. 02 · 2026-11-03

Industrial Lipase Enzyme

Lipase for hydrolysing natural oils and fats in leather, paper, detergent, biodiesel and oil treatment.

SKU **ENZ307** CATEGORY **LIPASE** CAS **9001-62-1** FORM **LIGHT YELLOW POWDER**

Produced by submerged fermentation · Industrial grade · Not restricted for transport

WORKING TEMPERATURE	WORKING PH	APPLICATION RATE	SHELF LIFE
30–50 °C	**4.0–12.0**	**0.5–3 kg per metric ton**	**12 months**
working range 30–50 °C; no optimum stated	working range pH 4.0–12.0; no optimum stated	typical rate on raw material	sealed, see storage below

SPECIFICATION

IDENTITY

Form	Light yellow powder Typical
Odor	Mild, non-irritating Typical

PHYSICAL

Moisture Content	**≤ 8 %** Typical
Mesh Pass Rate (40 mesh)	**≥ 80 %** Typical

WORKING WINDOW

Working temperature	30–50 °C Typical
Working pH	pH 4.0–12.0 Typical

Spec = release limit, confirmed on every lot's Certificate of Analysis. **Typical** = normal product behaviour, not a release limit.

STORAGE & PACKAGING

SHELF LIFE
12 months

STORAGE
Sealed container; cool and dry place away from direct sunlight; avoid moisture and direct heat

PACK SIZE
1 kg / bag

ORDERING
Online or by e-mail; current price on the product page

APPLICATIONS

Leather processing
Removes natural fats and greases from hides and skins; improves softness and dye absorption.

Pulp and paper
Reduces pitch deposits and enhances pulp cleanliness.

Detergent formulation
Breaks down fat residues and oily stains on fabrics and hard surfaces.

Biodiesel production
Catalyses hydrolysis, esterification and transesterification to produce FAMEs.

Oil and grease hydrolysis
Decomposes fats in wastewater, food waste and industrial fat systems.

DOSAGE

0.5–3 kg per metric ton

per metric ton of raw material

Substrate	**raw material**
Unit basis	**metric ton of raw material**

Optimal amount depends on substrate composition, process design and desired reaction level.
Conduct preliminary testing under actual process conditions to determine rate and addition method.

Each lot is released against its specification; the lot Certificate of Analysis reports the measured values.

enzymes.bio · Level 1, 6 Johnsonville Road, Wellington 6037, New Zealand · **Tel (USA) +1 (507) 428-6057** · wholesale@enzymes.bio

Online: enzymes.bio/product/industrial-lipase-enzyme-multi-purpose-biocatalyst-for-fat-and-oil-hydrolysis

Handle with care to avoid inhalation of dust or contact with eyes and skin. This technical data sheet gives the product specification and typical values; it is not a batch certificate. A Certificate of Analysis for the supplied lot accompanies each shipment. Safety Data Sheet on request.

SCAN TO ORDER