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TECHNICAL DATA SHEET

TDS-ENZ274-EN · REV. 02 · 2026-11-03

Industrial Alkaline Protease 200,000 U/g

Alkaline protease with a declared activity of 200,000 U/g, stated for pH 8.0–12.0 and 20–60 °C.

SKU **ENZ274** CATEGORY **ALKALINE PROTEASE** CAS **9014-01-1** GRADE **INDUSTRIAL GRADE**

Industrial grade

Not restricted for transport

DECLARED ACTIVITY	WORKING TEMPERATURE	OPTIMUM PH	SHELF LIFE
200,000 U/g	**20–60 °C**	**8.0–12.0**	**12 months**
as stated on the product page	no optimum stated	stated as optimal pH	sealed, see storage below

SPECIFICATION

IDENTITY		
Product	Alkaline Protease (Industrial Grade)	Typical
ACTIVITY		
Declared activity	**200,000 U/g**	Typical
PHYSICAL		
Appearance	Light yellow powder	Typical
WORKING WINDOW		
Optimal pH	8.0–12.0	Typical
Operating temperature	20–60 °C	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
Store cool and dry; avoid humidity, direct sunlight, and high temperature.

PACK SIZE
1 kg/bag

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

APPLICATIONS

Soak, lime/dehair and soften hides in leather making
Removes non-collagen proteins, disperses collagen fibers, enhances softness

Remove protein-based stains such as blood, food, grass and sweat in detergents
Degrades stains into soluble peptides

Scour and pretreat fabric before dyeing
Improves permeability and dyeing levelness

Degum silk by removing sericin
Gives softer, glossier silk while preserving color

DOSAGE

0.1–5 kg per metric ton of raw material

per metric ton of raw material

Application rate	**0.1–5 kg per metric ton of raw material**
Leather soaking	**0.1–1.0 kg/ton hide**
Leather liming/dehairing or softening	**0.2–2.0 kg/ton hide**
Textile	**0.2–2.0 kg/ton fabric in alkaline baths**

Optimize by trials.
Optimal rates depend on substrate, process design and desired outcomes.

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-alkaline-protease-200000-u-g-leather-%c2%b7-detergent-%c2%b7-textile-%c2%b7-protein-hydrolysis

Use appropriate PPE to avoid inhalation of dust and contact with eyes/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