



ELACTAVIA – MEzy™ (Multi Enzyme)

Technical Datasheet

1. Technical Datasheet

Property	Specification
Physical Properties	
Appearance	Yellow to brown coloured liquid.
Physical Form	Yellow to brown coloured liquid.
Odor	Slight fermentation
Molecular Weight	Varies depending on composition
Density / Specific Gravity	Varies depending on composition
pH (as supplied)	7.5 - 8.7
Chemical Properties	
pKa	Not applicable
Incompatibilities	Chlorine bleach can destroy enzymatic activity. High alkalinity, uncontrolled oxidation (e.g., from oxygen bleach in storage), and certain protease inhibitors can reduce enzyme efficiency and stability.
Hazardous Reactions / Decomposition Products	Not flammable or combustible. Hazardous decomposition products may include oxides of carbon.
Thermal Properties	
Melting Point	Not applicable (liquid)
Boiling Point	~100 °C
Flash Point	Not applicable
Decomposition Temperature	Enzymes can be degraded by temperatures above 40°C for extended periods.
Thermal Stability	Store in a cool, dry, shaded place away from direct sunlight. Prolonged exposure to high temperatures can degrade enzymatic activity. The product has a shelf life of 1 year under recommended storage conditions.
Solubility	
Solubility in Water	Miscible in water

2. Processing Methods



Economy Liquid Laundry Detergent

This formulation provides a cost-effective solution for general-purpose laundry cleaning.

Key Ingredients	Indicative Dosage (% w/w)
Water	70 - 80%
Linear Alkylbenzene Sulfonate (LAS) or Sodium Laureth Sulfate (SLES)	10 - 15%
Sodium Chloride or Carbomer	1 - 3%
Multi-Enzyme Blend (Protease, Amylase, Lipase, etc.)	0.6 - 3.5%
Preservative (e.g., Phenoxyethanol)	0.1 - 0.5%
Citric Acid / Sodium Hydroxide	As needed
Fragrance	0.1 - 0.5%

High-Efficiency (HE) Liquid Laundry Detergent

A lab-validated formula designed for performance, fabric safety, and compatibility with HE washing machines.

Key Ingredients	Indicative Dosage (% w/w)
Deionized Water	to 100%
Alkyl Polyglucoside (C8-C10 chain)	12.0%
Sodium Citrate	8.0%
Sodium Gluconate	3.0%
Glycerin	2.0%
Stabilized Multi-Enzyme Blend (Protease, Amylase, Lipase)	0.4%
Preservative System (e.g., Phenoxyethanol, Ethylhexylglycerin)	0.6%

3. Dosing by Application

Application	Recommended / Max Dosage
General Laundry Detergent Formulations	1 - 2%
Concentrated Laundry Detergents	0.6 - 3.5%
Dishwashing Liquids	0.6 - 3.5%
Floor and Toilet Cleaners	Dosage to be optimized based on desired performance for breaking down organic soils and eliminating odors.

The information and data contained herein are believed to be accurate but may not be all inclusive and should only be used as a guide. The information is furnished upon the condition that the person receiving it shall make his own determination of



the suitability of the product for his particular use and on condition that they assume the risk of the use thereof.

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