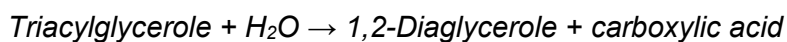
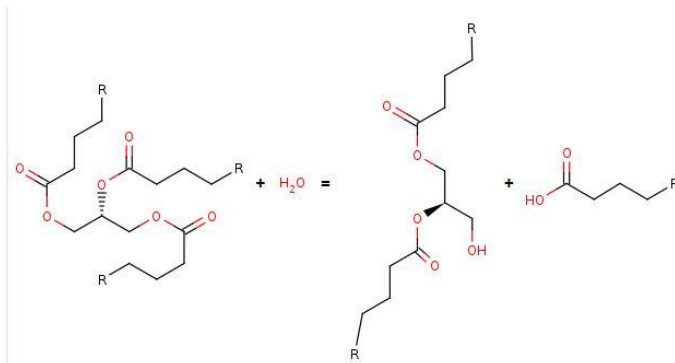


## Esterase EL-01

E.C. 3.1.1.3

Description: Removing of fats, organic synthesis

Catalysed reaction:



Origin: *Thermomyces lanuginosus*

Application: Industrial hydrolysis of fats  
Enzymatic synthesis of monoacylglycerides  
Degradation of fats and aliphatic contaminations  
Deinking of recovered paper

Activity: > 100 000 U/ mL  
(Method: ASA Spezialenzyme GmbH)

Specific activity: > 3 700 U/ mg Protein

Esterification: Primary alcoholy with long- and short chain carbonic acids  
Citronellol + oleic acid/ butyric acid  
Octanol + oleic acid/ butyric acid  
Fructose + oleic acid/ butyric acid

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|                   |                                                                                                           |                                                      |
|-------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Parameter:        | pH                                                                                                        | Optimum: 10.5, effective in the range of pH 6 – 10.5 |
|                   | Temperature                                                                                               | Optimum: 40°C, effective in the range of 10 – 70°C   |
| Dosage:           | 20 – 50 mL Esterase EL-01 per litre for the degradation of fats<br>(reaction time: 1 – 5 h, 40°C, pH 7.0) |                                                      |
| Article-no.:      | 2435                                                                                                      |                                                      |
| Form of delivery: | Liquid                                                                                                    |                                                      |
| Stability:        | Stable at 4°C                                                                                             |                                                      |
| Storage:          | 4 – 8°C                                                                                                   |                                                      |