



### Technical Data Sheet

## PEA Palmitoylethanolamid P. mikronisiert PEA Palmitoylethanolamide P. micronized



#### PRODUCT INFORMATION

Name	micronized Palmitoylethanolamide Powder		
CAS No	544-31-0	Sourced /Raw Material	Palm Oil
China	China	Carrier	None
ITEM	SPECIFICATION	METHOD	
Assay	98.0%-102.0%	HPLC	
Purity	≥99.0%	HPLC	
Appearance	White Micro Powder	Visual	<b>*The color may vary</b>
Identification	Positive	IR&1H NMR	
Loss on Drying	≤1.0 %	ChP	
Residue on Ignition	≤0.1 %	ChP	
Particle Size	D (0.80~1.00):10µm	ChP	
Residue Solvents	≤5000 ppm	GC	
Powder Fluidity	restricted		

#### STATEMENTS

Hygiene of foodstuffs	In compliance with Reg. (EC) 852/2004
Hazard	see MSDS
Preservative	Preservative Free
Residual Solvents	According to Dir. (EC) 2009/32 and amendments
Pesticides	According to Reg. (EC) 396/2005 and amendments
Microbiology	Bacterial Count: TAMC-Bacteria <1,000 cfu/g, TYMC <100 cfu/g, Coliforms ≤0.92MPN/g, Salmonella
GMO	GMO Free According to Reg. (EC) 1829/2003 and 1830/2003 and amendments
ETO	ETO free
Vegan	Vegan
Lactose	Lactose-Free
Gluten	Gluten-Free
Silicium Dioxide	Silicium Dioxide free
Magnesium Stearate	Magnesium Stearate free
Sterilization Method	High Temperature and Pressure
Irradiation	No ionization or other radiation is permitted According to Dir. (EC) 1999/2 and 1999/3 and amendments
BSE/TSE	Risk Free BSE/TSE
Allergen free	according to Reg. (EC) 1169/2011
<b>Unintentional contact (traces) in the supply chain cannot be excluded.</b>	
Nanomaterials	Absent According to Reg. (EC) 1169/2011
Titanium dioxide	Absent According to Reg. (EC) 2022/63
Packaging	According to Reg. (EC) Nr. 10/2011 and 1935/2004

#### STORAGE AND HANDLING

Packaging	10 kg, 25 kg, possibly different upon agreement
Storage	Store in a well-closed container away from moisture and direct sunlight
Shelf Life	2 years if sealed and properly stored
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Issue date (Version 5)	07.04.2026

**All above information according to the manufacturer / supplier**

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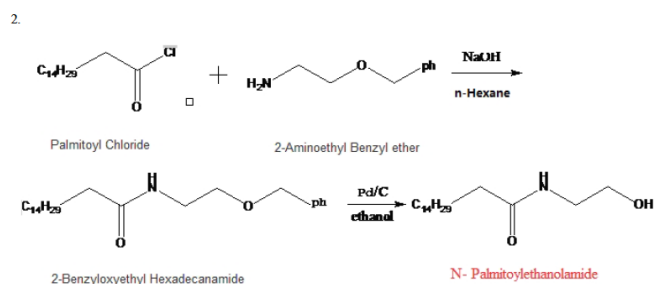


**PEA Palmitoylethanolamide P. micronized**

Nutrition Values of Palmitoylethanolamide (PEA)					
Per 100 g					
Nutrient	Amount	Source (A or C)	Nutrient	Amount	Source (A or C)
*Calories	0		Niacin (mg NE)	0	
Total Fat (g)	0		Vitamin B 6 (mg)	0	
Saturated Fat (g)	0		Folic Acid (mcg DFE)	0	
Polysaturated Fat (g)	0		Vitamin B 12 (mcg)	0	
Monounsaturated Fat (g)	0		Biotin (mcg)	0	
Trans-fat (g)	0		Pantothenic Acid(mg)	0	
Cholesterol (mg)	0		Phosphorus (g)	0	C
Sodium (mg)	≤10		Iodine (mcg)	0	
Potassium (mg)	0		Magnesium (mg)	11	
Total Carbohydrate(g)s	0		Zinc (mg)	0	
*Dietary Fiber (g)	0		Selenium (mcg)	0	
Soluble Fiber (g)	0		Copper (mg)	0	
Insoluble Fiber (g)	0		Manganese (mg)	0	
Sugar (g)	0		Chromium (mcg)	0	
Added Sugar(g)	0		Molybdenum (mcg)	0	
Moisture(g)	≤0.24		Chloride (mg)	≤20	
Ash(g)	≤1.0		All other nutrients or Dietary	0	
Protein (g)	0		<b>Ingredients:</b>		
Vitamin A (mcg RAE)	0		Coffeine	0	
Vitamin C	0		Lactose	0	
Calcium (g)	0				
Iron (mg)	0				
Vitamin D (mcg)	0				
Vitamin E (mg)	0				
Vitamin K (mcg)	0				
Thiamin (mg)	0				
Riboflavin (mg)	0				

**Flow Chart of Palmitoylethanolamide (PEA)**

1. Palm Oil  $\xrightarrow{\text{NaOH}}$  Mixed Unsaturated Fatty Acid  $\rightarrow$  Crude Palmitic Acid (Vacuum Distillation)  $\rightarrow$  Pure Palmitic Acid (Crystallization)  $\rightarrow$  Palmitoyl Chloride (by Phosgenation reaction)



3. Crude Palmitoylethanolamide  $\rightarrow$  Purification  $\rightarrow$  Filtration  $\rightarrow$  Re-dissolve in ethanol  $\rightarrow$  Crystallization  $\rightarrow$  Filtrate Clear liquid  $\rightarrow$  Crystallization  $\rightarrow$  Filtration  $\rightarrow$  Solid Vacuum Drying  $\rightarrow$  Testing  $\rightarrow$  Packing  $\rightarrow$  Final Product(N- Palmitoylethanolamide )

the starting Raw material is : Palm Oil

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