



Product specification – Edible Vegetable Oil Refined Deodorized Bleached Rapeseed Oil (RPSO)

Product Name	Vegetable Oil — Refined Rapeseed Oil	
Ingredients	100% pure rapeseed oil	
Product description:	Physically refined edible oil of vegetable origin obtained from rapeseeds by pressing and extraction. The oil is bleached and deodorized.	
Primary packaging:	PET bottle, plastic canister, PE cap	
Secondary packaging:	corrugated cardboard box (when applicable)	
Storage and transport requirements:	To be stored in places protected from precipitation fallout and sunlight	
Shelf life:	24 months from the date of bottling, if stored in a dark indoor area within the recommended temperature range from 8°C to 20°C	
Regulatory reference:	Quality of the product is in compliance with the requirements of DSTU 8175:2015 "Rapeseed Oil. Specifications" (Ukrainian national standard)	
Application purpose:	Refined rapeseed oil is used for frying, hot cooking, and hot/cold salad-dressing	
Use and application:	This product is fit for direct human consumption.	
Sensory characteristics:		
Appearance, color:	Clear oily liquid of a slightly yellowish color, without sediment	
Taste:	Neutral, free from any foreign taste	
Odor:	Neutral, free from any foreign odors	
Nutrition Value, per 100g		
Total Fat:	99.85g	
Energy Value:	899kCal/3696kJ	
Physical and chemical properties:		
<i>Test item name and unit</i>	<i>Reference Value</i>	<i>Tested Value*</i>
Color number, mg iodine, not more than	10	1.1
Acid number, mg KOH/g, not more than	0.40	0.04...0.06
Peroxide number, ½ O mmol/kg, not more than	10	0.40...0.60
Content of phosphoric substances in terms of stearooleocithin, % by weight, not more than	0.05	not detected
Non-fat impurity content, % by weight, not more than	none	not detected
Moisture and volatiles content, % by weight, not more than	0.15	0.05...0.10
Wax and wax-like substances	none	not detected
Soap (quality test)	none	not detected
Mass fraction of erucic acid, %:	1.5	0.1
Flash point of extraction oil °C, min	240	245

* This is a reference product specification. The actual tested values may vary slightly from batch to batch. The actual tested values for each individual consignment of this product will be given in respective quality documents issued for that consignment at the time of shipping.

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(continued)

Heavy metals by weight, mg/kg, not more than:	<i>Reference Value</i>	<i>Tested Value*</i>
Lead (Pb)	0.10	0.063
Cadmium (Cd)	0.05	0.0237
Arsenic (As)	0.10	not detected
Mercury (Hg)	0.03	not detected
Copper (Cu)	0.50	0.231
Zinc (Zn)	5.00	3.383
Iron (Fe)	5.00	1.644
Residual pesticides by weight, mg/kg, not more than:	<i>Reference Value</i>	<i>Tested Value*</i>
DDT	0.10	< 0.05
Hexachlorane (HCCH, hexachlorocyclohexane)	0.05	< 0.05
Heptachlor mg/kg	0	not detected
Chlorpyrifos, mg/kg	0	<0.005
Chlorpyrifos-methyl, mg/kg	0	<0.005
Mycotoxins by weight, mg/kg, not more than:		
	<i>Reference Value</i>	<i>Tested Value*</i>
Aflatoxin B1	0.005	< 0.001
Zearalenone	1.0	< 0.04
Radionuclides, Bq/kg		
	<i>Reference Value</i>	<i>Tested Value*</i>
Caesium-137 (Cs-137)	< 100	10.2
Strontium-90 (Sr-90)	< 30	4.72
Other		
Trans fatty acids, %	< 1.0	0.48
Benzo(a)pyrene content by weight, µg/kg	< 2.0	0.5
Genetically modified organisms (GMO)		
Target sequence of cp4 EPSPS	< 0.01%	not detected
Target sequence of Pat	< 0.01%	not detected
Target sequence of Bar	< 0.01%	not detected
Fatty acid composition, %	<i>Reference Value</i>	<i>Tested Value*</i>
C 16:0	2.5 – 6.0	4.47
C 16:1	<0.6	0.15
C 18:0	0.8 – 2.5	1.45
C 18:1	50.0 – 65.0	52.02
C 18:2	18.0 – 20.0	18.70
C 18:3	6.0-14.0	6.2
C 20:0	0.1 – 1.2	0.43
C 20:1	0.1 – 4.3	0.9

C 22:0	<0.6	0.2
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