



NHR ORGANIC OILS  
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## Certificate of Analysis Sheet

### Organic Castor Seed Oil

(*Ricinus communis*)

Batch number: 180424-1

Origin: India

INCI Name: *Ricinus communis* seed oil

CAS No: 8001-79-4

Einecs No: 232-293-8

Test	Specification	Result
Appearance	Clear viscous oily liquid	Complies
Colour	Colourless to pale yellow	Complies
Odour	Characteristic	Complies
Specific Gravity at 20°C	0.954 – 0.98	0.962
Refractive Index at 20°C	1.47 – 1.481	1.471
Acid Value (mgKOH/g)	< 5	0.64
Iodine Value (g/100g)	82 – 90	86.0
Peroxide Value (MeqO <sub>2</sub> /kg)	< 20	0.05
Saponification Value (mgKOH/g)	176 – 187	181.0
Hydroxyl Value (mgKOH/g)	> 150	Complies

#### Fatty Acid Profile %

C 16:0 Palmitic Acid	< 2	1.43
C 18:0 Stearic Acid	< 2.5	1.44
C 18:1 Oleic Acid	2 – 6	3.44
C 18:1 Ricinoleic Acid	85 – 95	88.2
C 18:2 Linoleic Acid	1 – 7	5.21
C 18:3 Linolenic Acid	< 1	< 1.0

**Storage:** Keep tightly closed, in a cool dry place away from heat, sunlight and moisture.

Shelf life of this product depends very much on storage conditions, particularly temperature and exposure to light and air.

Due to the natural ingredients contained in many of our products, there may be a slight batch to batch variation in the colour, odour, or consistency. However, we ensure that this does not affect the quality and efficiency of the products in any way.

We hereby certify that the above material meets the required specification and is released for free sale.