

## Certificate of Analysis

Product: Castor Oil  
Botanical Name: *Ricinus communis*  
Origin: India  
Plant Part used: Seed  
Method of extraction: Cold pressed

<b>Physical data</b>	<b><u>Specification</u></b>	<b><u>Result</u></b>
Appearance:	Clear viscous liquid	Complies
Colour:	Colourless to light greenish/yellow	Complies
Odour:	Slight	Complies
Specific Gravity @ 20°C:	0.950 to 0.970	0.960
Refractive Index @ 20°C:	1.470 to 1.485	1.479
Acid Value (mgKOH/g):	Max 5.0	0.4
Peroxide Value (Meq O <sub>2</sub> /kg):	Max 8.0	1.0
Unsaponifiable matter (%):	Max 1.0	0.3*
Moisture (%):	Max 0.3	0.1*
Hydroxyl Value (mgKOH/g):	Min 140	165*
Palmitic Acid (%) **	Max 2.0	1.2
Stearic Acid (%) **	Max 2.5	1.3
Oleic Acid (%) **	2.5 to 6.0	3.6
Linoleic Acid (%) **	2.5 to 7.0	4.7
Linolenic Acid (%) **	Max 1.0	0.3
Eicosenoic Acid (%) **	Max 1.0	0.4
Ricinoleic Acid (%) **	85.0 to 92.0	88.4