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## *Gas Liquid Chromatography (GLC) Certificate Of Analysis Sheet*

### **Castor oil, organic**

<b>Parameter</b>	<b>Unit</b>	<b>Specification</b>	<b>Result</b>
refractive index (20°C)		ca.1,479	1,4 788
relative density (20°C)	kg/l	ca. 0, 958	0,962
acid value	mg KOH/g	max. 2	0,26
peroxide value	meqO <sub>2</sub> /kg	max. 10	0,6
iodine value	g I <sub>2</sub> /100g	82-90	85,6
saponification value	mg KOH/g		179,3
unsaponifiable matter	%	max. 0,8	0,40
colour Gardner			1,2
iodine colour			1,2
hydroxylzahl value	mg KOH/g	min. 150	164,7
water	%		0,25
absorbance (269 nm)			0,11

### **Fatty Acid composition (GC of FAME's)**

C16:0 palmitic acid	%	1,2
C18:0 stearic acid	%	1,4
C18:1 oleic acid	%	4,0
C18:2 linoleic acid	%	5,1
C18:3 linolenic acid	%	0,6
C20:1 eicosenoic acid	%	0,3
ricinoleic acid	%	87,0
others	%	0,4

Certificate of analysis does not release customers from their quality responsibility when processing our products.

Quality Assurance  
Established by Computer, therefore no signature.