



318 Half Day Rd, PMB 348, Buffalo Grove, IL 60089

## Specification Sheet

Product : Castor Oil USP

Description	Specification (USP 43)	
	MIN	MAX
Specific Gravity at 25°C , USP 401	0.96	0.96
Unsaponifiable Matter, USP 401, %	-	0.8
Hydroxyl Value, USP 401, mg KOH/g	160	168
Acid Value, USP 401	-	2
Peroxide Value, USP 401	-	10
Water (By KF), USP 921, %	-	0.3
A Identity by Fatty Acid Composition, BYGC		
a Palmitic Acid, C 16:0, %	-	2
b Stearic Acid, C 18:0, %	-	2.5
c Oleic Acid, C 18:1, %	2.5	6
d Linoleic Acid, C 18:2, %	2.5	7
e Linolenic Acid, C 18:3, %	-	1
f Cis-11-Eicosenoic Acid, C 20:1, %	-	1
g Ricinoleic Acid, %	85	92
h Other Unidentified Fatty Acid, %	-	1
B Distinction from Other Fixed Oils, USP 43	Slightly soluble in hexane, yields a clear liquid with alcohol	
C Identification by UV Absorption, USP 857	Absorbance 0.7 Max	
Lead, Pb by ICP, ppm	-	0.5
Arsenic, As by ICP, ppm	-	1.5
Mercury, Hg by ICP, ppm	-	3
Cadmium, Cd by ICP, ppm	-	0.5

Residual Solvent – N-Hexane, USP 467, By GC-HS, ppm	-	290
Appearance	Characteristically clear, free from suspended matter	
Odor	Slight characteristic	
Color Gardner, G	-	3

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