

Castor Oil No. 1

PRODUCT SPECIFICATION OF 23a

Description: Castor Oil No. 1

Issue:2

First Special Grade

Appearance	: pale yellow viscous liquid
Moisture, impurities & volatile matter	: 0.25 % Max
Refractive index @ 25 deg. c	: 1.477 - 1481
Relative density at 20 deg c	: 0.954 – 0.960
Acid value	: 2 Max
Hydroxyl value	: 160 Min
Iodine value	: 82 – 90
Saponification value	: 177 – 185
Optical rotation	: + 3.5 - + 6.0 deg
Unsaponifiable matter	: 1 % Max
Acetyl value	: 140 Min
Free fatty acid as oleic acid	: 1 % Max
Viscosity gardner at 25 deg c	: U – V
Colour in 5 1/4" lovibond	:20Y 2R max

NB This document nullifies and replaces all previous documents referring to this product.

Ricinoleic Acid

PRODUCT SPECIFICATION OF 211

Description: Ricinoleic Acid

Issue: 2

Acid Value (fresh sample)	175 min.
Saponification Value	180 – 190
Hydroxyl Value (fresh sample)	155 min.
Iodine Value	85 min.
Colour Gardner	7 max.
Specific gravity @ 27 oC	0.935 – 0.945

NB This document nullifies and replaces all previous documents referring to this product.

12-Hydroxy Stearic Acid (12-HSA)

PRODUCT SPECIFICATION OF 214

Description: 12-Hydroxy Stearic Acid (12-HSA)

Issue: 2

Acid value	175 min.
Iodine value	5 max.
Hydroxyl value	150 min.
Saponification value	180 min.
Melting Point in °C	70 min.
Colour Gardner	5 max.
12 HSA	85% min.
12 Keto Stearic	2% max.

NB This document nullifies and replaces all previous documents referring to this product.

Hydrogenated Castor Oil

PRODUCT SPECIFICATION OF 232

Description: Hydrogenated Castor Oil

Issue: 2

Acetyl Value	139 min
Acid value	5 Max
Iodine value	5 max.
Hydroxyl value	155 min.
Saponification value	175 - 182
Melting Point	82 °C min
Colour Gardner	3 max.

NB This document nullifies and replaces all previous documents referring to this product.