

## Certificate of Analysis

### (Representative Sample Certificate)

**Product Name:** PEG-40 Hydrogenated Castor Oil  
**INCI Name:** PEG-40 Hydrogenated Castor Oil  
**CAS Number:** 61788-85-0  
**Lot Number:** Not available (data may vary slightly with different lots or batches)  
**Expiration Date:** 24 months from production date

Characteristic	Specifications	Results
Appearance @25° C	Off white/yellow liquid to semi solid	Pass
Color (Gardner)	6.0 max	0.3
pH (3% aqueous)	5.5-7.0	6.3
Moisture, % (KF)	1.0 max	0.23
Acid Value	3.0 max	0.67
Saponification Value	60.0-67.0	66.9
Iodine Value	2.0 max	0.76
Hydroxyl Value	59.0-68.0	64.3
pH (10% aqueous)	6.0-7.0	6.94

All product characteristic test methods conforms to USP/NF unless noted with an asterisk(\*).

This product does not contain bovine, ovine, or caprine materials of any type.

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Mix before sampling and use to ensure homogeneity. Material may solidify when stored below 25 deg C. If material contains solids gently heat at 40 to 50 deg C and mix thoroughly before use. Product might darken with age and/or exposure to light. The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

**Disclaimer:** This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.