

Certificate of Analysis

(Representative Sample Certificate)

Product Name: Sorbitan Oleate
INCI Name: Sorbitan Oleate
CAS Number: 1338-43-8
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 24 months from production date

Characteristic	Specifications	Values
Acid value, MG KOH/G	5-10	8.0
Hydroxyl Value MG KOH/G	193-210	198
Saponification Value MG KOH/G	145-160	151
Moisture KF, %	<=1.0	0.6
Arsenic	<3ppm	Pass
Heavy Metals	<10ppm	Pass
Color, Garner	8 max	Pass

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.