

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek. Certificate Number. 2317548

Catalogue Number	17711
Lot Number	A0442103
Description	Cottonseed oil,pure
CAS Number	8001-29-4
Quality Test/Release Date	26/May/2026
Suggested retest date	26/May/2028
Country of Origin	UNITED STATES OF AMERICA
Declaration of Origin	plant
BSE/TSE	extracted from the seeds of cotton plants

Result Name	Units	Specifications	Test Value
Appearance (Color)		Yellow	Yellow
Appearance (Form)		Oily liquid	Oily liquid
Infrared spectrum		Conforms	Conforms
Acid value	mg KOH/g	=<0.5	0.06
Saponification value	mg KOH/g	185 to 198	194
Iodine value	g I2/100 g	95 to 115	96.2
Unsaponifiable matter	%	=<1.5	0.4
Refractive index		1.4720 to 1.4730 (20°C, 589 nm)	1.4727 (20°C, 589 nm)
Additional info		typical fatty acid composition:	typical fatty acid composition:
Additional info		myristic and lower: ca 1.5%	myristic and lower: 0.9 %
Additional info		palmitic: ca 25%	palmitic: 20.3 %
Additional info		stearic: ca 3%	stearic: 2.6 %
Additional info		oleic: 16 to 24%	oleic: 18.5 %
Additional info		linoleic: 50 to 55%	linoleic: 55.9 %
Additional info		linolenic and higher: =<1.5%	linolenic and higher: 1.3 %

Geert Torfs  
Supervisor, QC

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.