

Kalchem International

Chemicals & Compounding Supplies

CERTIFICATE OF ANALYSIS

ALMOND OIL
LOT# 3343

Properties/Analysis	Result	Range/Limit	UOM	Test Method
Appearance @ Room Temp.	Pass	Clear light yellow oil. May cloud when chilled.		Visual
Relative Density (25°C)	0.910 – 0.915	0.910 – 0.915	g/mL	EP 5 (2.2. 5.)
Refractive Index (20°C)	1.465 – 1.473	1.465 – 1.473		AOCS Cc 11-53
Saponification Value	190 – 200	190 – 200	mg KOH/g	EP 5 (2.5. 6.)
Unsaponifiable Matter	<0.9	Max. 1.0	%	EP 5 (2.5. 7.)
Moisture	Pass	Max. 0.5	%	EP 5 (2.2. 12.)
Acid Value	0.2	Max. 1.0	mg KOH/g	AOCS Ca 5a-40
Iodine Value	95 – 105	95 – 105	g I/100g	EP 5 (2.5. 4.)
Peroxide Value	0.5	Max. 10.0	mEq/kg	AOCS Cd 8b-90
Cold Test @ 5°C, Min. 5.5Hrs	Pass	Clear		NGD C24 - 1979
Fatty Acid Composition:				
Myristic acid C 14:0	Max. 0.1	Max. 0.1	%	EP 5 (2.4. 22.)
Palmitic acid C 16:0	6.1	4.0 – 9.0	%	EP 5 (2.4. 22.)
Palmitoleic acid C 16:1	0.6	Max. 0.7	%	EP 5 (2.4. 22.)
Stearic acid C 18:0	1.8	0.9 – 3.0	%	EP 5 (2.4. 22.)
Oleic acid C 18:1	67.5	50.0 – 86.0	%	EP 5 (2.4. 22.)
Linoleic acid C 18:2	23.2	20.0 – 30.0	%	EP 5 (2.4. 22.)
Linolenic acid C 18:3	0.1	Max. 0.5	%	EP 5 (2.4. 22.)
Arachidic acid C 20:0	0.1	Max. 0.5	%	EP 5 (2.4. 22.)
Other tests:				
Foreign kernel oils	Complies	Absent		USP29/NF24, p.3270
Cotton seed oil	Complies	Absent		USP29/NF24, p.3270
Sesame seed oil	Complies	Absent		USP29/NF24, p.3270
Mineral Oil and foreign fatty oils	Complies	Absent		USP29/NF24, p.3270
Olive, peanut, and other fixed oils	Complies	Absent		USP29/NF24, p.3270

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