Kalchem International

Chemicals & Compounding Supplies

Certificate of Analysis

Date : 20/08/2015
Certificate No : 890000216137
Product : PALMSURF IPP 98 ISOPROPYL PALMITATE
Batch No : P5142

Sample Date : 14/08/2015
Approved Date : 02/09/2015
Manufacturing Date : 14/08/2015
Expiry Date : 13/08/2017

ANALYSIS RESULTS

Test Parameters	Test Result	Specifications	Unit	Test Method
Appearance at 25°C	Transparent liquid	Transparent liquid		Visual Inspection
Colour (APHA)	< 2.5	20.0 Max	APHA	In-house method based on ASTM D1209
Acid Value	0.33	0.50 Max	mg KOH/g	In-house method based on AOCS Cd 3d-63
Saponification Value	188.3	185.0 - 195.0	mg KOH/g	In-house method based on AOCS Cd 3-25
Iodine Value	0.06	1.00 Max	g I2/100g	AOCS Cd 1b-87
Isopropyl Palmitate	99.8	98.0 Min	%	In-house method based on USP 38 <621 >
Refractive Index at 25°C	1.437	1.435 - 1.438		USP 38 (Method 831)
Specific Gravity at 25°C	0.852	0.850 - 0.855		USP 38 (Method 841)
Moisture	0.01	0.10 Max	%	USP 38 (Method 921)
Cloud Point	11.2	9.0 - 13.0	°C	AOCS Cc 6-25

This COA shall not be re-produced except in full, without written approval from Laboratory.

Issued by shipper/ Manufacturer
CERTIFIED BY

Yeoh Seow May
B.SC. (Hons) LMIC

Kalchem International, Inc
224 South Main Street - Lindsay, OK 73052
Toll Free 888-298-9905 | FAX: 405-756-2373