



Certificate of Analysis

Product: Thai^{*}OL 1698

Description: Cetyl Alcohol 98% min

Batch No: 2316042003

Tank No : 3200T007B

Lab Report No: LAR-C4-1604-01597

Tested Date: 21 April 2016

Characteristics	Analysis Method	Specification	Result
Appearance	Visual check	White solid or pastilles	White Solid
Colour APHA	In house Method Base on ISO 6271-1:2004 (E)	0- 10	3
Acid value mgKOH/g	In house Method Base on ISO 660-1996	0- 0.1	<0.01
Sap. value mgKOH/g	In house Method Base on ISO 3657:2002 (E)	0- 0.5	0.3
Hydroxyl value mgKOH/g	In house Method Base on ASTM E 1899-02	228-233	232.2
Iodine Value g I/100g	ISO 3961-1996	0- 0.5	<0.04
Solid Point (degree C)	ISO 3841-1997	47-50	48.9
Water content %	ASTM E203-01	0- 0.3	0.046
Chain distribution %	In house Method Base on Reference No.970059-0		
C14		0-2	0.11
C16		98-100	98.54
C18		0-2	0.66
Hydrocarbon %	In house Method Base on Reference No.970059-0	0-0.5	<0.01
Carbonyl Number, mg/kg	In house Method Base on Reference no.980144-01	150 max	40

We hereby verify the analysis of the sample as shown above.

Nawin Sukswan

Process Skilled Specialist (QA)

(This is a computer generated document and will not bear any signature)

Manufacturing Date: 20 April 2016

Expiry Date: 19 April 2018

The test values listed above were determined from selected, representative samples taken from the batch(es) to be delivered.

The above information only applies to material directly after production. It does not release the purchaser from conducting his own incoming inspection and does not release a guarantee of certain characteristics, or of the suitability of the product for a certain