



TFA
บริษัท ไทยเฟตตีแอลกอฮอล์ จำกัด
Thai Fatty Alcohols Co.,Ltd.

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Certificate of Analysis

Product: ThaiOL 1698
Description: Cetyl Alcohol 98% min
Batch No: 2315042603
Tank No : 3200T007B
Lab Report No: ANA-C4-1504-02024
Tested Date: 27 April 2015

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	4
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	0.4
Hydroxyl value mgKOH/g	In house Method Base on ASTM E 1899-02	228-233	233.0
Iodine Value g I/100g	ISO 3961-1996	0- 0.5	<0.04
Solid Point (degree C)	ISO 3841-1997	47-50	50.0
Water content %	ASTM E203-01	0- 0.3	0.053
Chain distribution %	In house Method Base on Reference No.970059-0		
C14		0-2	0.12
C16		98-100	98.80
C18		0-2	<0.01
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	30

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

Nawin Suksuwan

Process Skilled Specialist (QA)

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

Manufacturing Date: 26 April 2015

Expiry Date: 25 April 2017

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