

## Certificate of Analysis

Product: **THAIOL** 1618  
Description: Cetyl-Stearyl Alcohol  
Batch No: 1223081806  
Tank No: 3100T010  
Lab Report No: LAR-C04-2308-01104/TFA-C04-I-2308038096  
Tested Date: 21 August 2023

Characteristics	Analysis Method	Specification	Result
Appearance	Visual check	White solid or Pastilles	Pastilles
Colour, APHA	ASTM D5386-16	0-10	4
Acid value, m gKOH/g	ISO660-2009	0-0.1	0.03
Sap. value, mg KOH/g	ISO 3657:2013 ( E )	0-1.0	<0.1
Hydroxyl value, mgKOH/g	Based on ASTM D6342-12 ( Reapproved 2017 )e1	210-220	213
Water content, %	ASTM E203-16	0-0.3	0.058
Chain distribution, %	Based on COGNIS No.970059-01		
C14		0-3	0.06
C16		22-32	25.61
C18		66-76	73.06
C20		0-3	0.22
Hydrocarbon		0-0.5	<0.01
Iodine value, g Iodine/100g	AOCS Cd 1C-85	0-0.5	<0.1
Solidification Point, °C	ASTM D7346-15 ( Reapproved 2021)	50-54	53.7
Carbonyl Number, mg/kg	Based on COGNIS No.980144-01	150 max	40

We hereby verify the analysis of the sample as shown above

Approved by : Rattanaporn Chansaihong  
QA & QC Engineer  
(This is e computer generated document and will not bear any signature)

Manufacturing Date: 18 August 2023      Expiry Date: 17 August 2025

Remark : \*Expiry date\* applies for goods with proper storage condition e.g. :

- I) Stored in cool (Approx. 30°C) and dry place
- II) In its original unopened packing and stored in its commercial containers.

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 the suitability for a certain