



16 MAY 2020

TO WHOM IT MAY CONCERN

## CERTIFICATE OF ANALYSIS

**PRODUCT** : LAURIC ACID (KORTACID 1299)  
**MANUFACTURING DATE** : 07 MARCH 2020 / 10 MARCH 2020 / 21 APRIL 2020 / 28 APRIL 2020 / 09 MAY 2020  
**RE-TEST DATE** : 06 MARCH 2022 / 09 MARCH 2022 / 20 APRIL 2022 / 27 APRIL 2022 / 08 MAY 2022  
**MARKING** : BATCH NO.: 229F1200307A / 229F1200310A / 229F1200421A / 229F1200428A / 229F1200509A

	<u>METHOD</u>	<u>BATCH NO : SPECIFICATION</u>	<u>229F1200307A</u>	<u>229F1200310A</u>	<u>229F1200421A</u>
<b><u>ANALYSIS RESULT</u></b>					
IODINE VALUE gI2/100g	AOCS Tg 1a-64	0.2MAX	0.05	0.08	0.06
ACID VALUE mg KOH/g	AOCS Te 1a-64	279 - 281	280.3	280.4	280.3
SAPONIFICATION VALUE mg KOH/g	AOCS Tl 1a-64	280 - 282	281.3	281.4	281.3
TITER degree C	AOCS Tr 1a-64	43.3 - 44	43.8	43.6	43.6
COLOUR (5 1/4" LOV. CELL) R	AOCS Cc 13e-92	0.2MAX	0.1	0.1	0.1
COLOUR (5 1/4" LOV. CELL) Y	AOCS Cc 13e-92	2MAX	0.5	0.5	0.5
<b><u>FATTY ACID COMPOSITION(%)</u></b>					
C10	AOCS Ce 1e-91	1MAX	0.2	0.2	0.2
C12	AOCS Ce 1e-91	99MIN	99.6	99.7	99.5
C14	AOCS Ce 1e-91	1MAX	0.1	ND	0.2
OTHERS	AOCS Ce 1e-91	0.2MAX	0.1	0.1	0.1

	<u>METHOD</u>	<u>BATCH NO : SPECIFICATION</u>	<u>229F1200428A</u>	<u>229F1200509A</u>
<b><u>ANALYSIS RESULT</u></b>				
IODINE VALUE gI2/100g	AOCS Tg 1a-64	0.2MAX	0.06	0.05
ACID VALUE mg KOH/g	AOCS Te 1a-64	279 - 281	280.4	280.3
SAPONIFICATION VALUE mg KOH/g	AOCS Tl 1a-64	280 - 282	281.4	281.3
TITER degree C	AOCS Tr 1a-64	43.3 - 44	43.8	43.8
COLOUR (5 1/4" LOV. CELL) R	AOCS Cc 13e-92	0.2MAX	0.1	0.1
COLOUR (5 1/4" LOV. CELL) Y	AOCS Cc 13e-92	2MAX	0.5	0.5
<b><u>FATTY ACID COMPOSITION(%)</u></b>				
C10	AOCS Ce 1e-91	1MAX	0.2	0.2
C12	AOCS Ce 1e-91	99MIN	99.6	99.6
C14	AOCS Ce 1e-91	1MAX	0.1	0.1
OTHERS	AOCS Ce 1e-91	0.2MAX	0.1	0.1

ND=NOT DETECTED

**MANUFACTURER- PACIFIC OLEOCHEMICALS SDN BHD**

TAN CHEE KEONG - CHEMIST

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

The following steps to be taken to ensure the product quality is not being affected when discharge and storage

- Use clean and stainless steel discharge line to discharge the material.
- If the material is solid/semi solid, to melt the product, heating should not exceed the maximum rate of 1-2°C/hours Or low pressure steam 1-2bar max to prevent localised over-heating.  
 The final temperature should not excess 5-10°C higher than solidification point of the product.
- Packed product must store in proper ventilated enclosed warehouse to avoid direct exposure to wheather.  
 Fatty Acid (C6/C8/C10) colour spec report at the time of shipment. Color will increased over the time.