



Quality, Delivered on time.

# Oleochemicals - Palm Oil Based

**Covvalent**  
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time.

## Manufacturing Capacity



North Sumatra



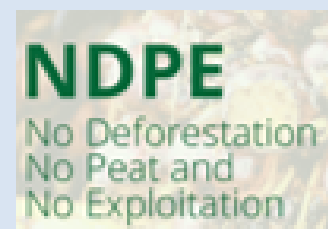
200 KMT annual  
capacity



Indonesia



## Certifications



# Product Portfolio

**Glycerine**

**Fatty Acid**

**Soap Noodle**

**Surfactant**

**DFA Blend**

**Oils**



Product Name	COVV Glycerine 99.7 USP	COVV Glycerine 99.5 USP
<b>Product Description</b>	<b>Glycerine 99.7% USP</b>	<b>Glycerine 99.5% USP</b>
Acid Value (mg KOH/g)	-	-
Water (%)	-	-
Iodine Value (%)	-	-
Ash (%)	-	-
MONG (%)	-	-
Glycerine Content (%)	-	-
pH	-	-
Assay (%)	99.7 minimum	99.5 minimum
Colour (APHA)	10 maximum	10 maximum
FA & Esters % Na2O (mL .0.5 MNaOH/50g g)	1 maximum	1 maximum
Chloride (ppm)	10 maximum	10 maximum
Sulphate (ppm)	20 maximum	20 maximum
Water (wt%)	0.3 maximum	0.5 maximum
ROI (wt%)	0.01 maximum	0.01 maximum
HM (ppm Pb)	5 maximum	5 maximum
S.G. (at 25/25°C)	1.2612 minimum	1.2612 minimum
RI (at 20°C)	1.470-1.475	1.470-1.475
IR Identification	Pass	Pass
DEG (wt%)	0.1 maximum	0.2 maximum
Total Impurities (wt%)	1 maximum	1 maximum

# Fatty Acid (1/3)

Fatty Acid						
Product Name		COVV Caproic Caprylic Acid	COVV Caprylic Acid 99	COVV Capric Acid 99	COVV Caprylic Capric Acid	COVV Lauric Acid 99
Product Description		Caproic Caprylic Acid	Caprylic Acid 99%	Capric Acid 99%	Caprylic Capric Acid	Lauric Acid 99%
Approximate Fatty Acid Composition	C6: Caproic Acid	≥ 70	≤ 1.0	-	≤ 0.5	-
	C6C8	≥ 90	-	-	-	-
	C8: Caprylic Acid	-	≥ 99	≤ 1.0	55 – 62	-
	C10: Capric Acid	-	≤ 1.0	≥ 99	38 – 45	≤ 1.0
	C12: Lauric Acid	-	-	≤ 1.0	≤ 1.0	≥ 99
	C12C14	-	-	-	-	-
	C14: Myristic Acid	-	-	-	-	≤ 1.0
	C16: Palmitic Acid	-	-	-	-	-
	C18: Stearic Acid	-	-	-	-	-
	C18 1: Oleic Acid	-	-	-	-	-
	C18 2: Linoleic Acid	-	-	-	-	-
	C18 3: Linolenic Acid	-	-	-	-	-
	Others	-	-	-	-	-
Acid Value (mgKOH/g)		≥ 410	385-391	324-328	354-367	278-282
Saponification Value (mgKOH/g)		≥ 411	386-392	325-329	355-368	279-283
Iodine Value (gl <sub>2</sub> /100g)		-	≤ 0.3	≤ 0.2	≤ 0.5	≤ 0.2
Moisture (wt%)		≤ 1.0	≤ 0.2	≤ 0.2	≤ 0.2	≤ 0.2
Titer (°C)		-	14-17	30-32	5	42-44
Colour 5 ¼ R/Y		-	≤ 0.5R 5Y	≤ 0.5R 5Y	≤ 0.5R 5Y	≤ 0.2R 1Y
Unsaponification (wt%)		-	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Heat Stability		-	-	-	≤ 20 (10R+Y)	-



# Fatty Acid (2/3)

Fatty Acid						
Product Name		COVV Myristic Acid 99	COVV Lauric Myristic Acid	COVV Dist. C8-18K	COVV H Dist. C8-18	COVV Dist. Palm Kernel Fatty Acid
Product Description		Myristic Acid 99%	Lauric Myristic Acid	Distilled C8-18K Fatty Acid Blend	Hydrogenated Distilled C8-18 Fatty Acid Blend	Dist. Topped Palm Kernel Fatty Acid
Approximate Fatty Acid Composition	C6: Caproic Acid	-	-	≤ 1	≤ 0.05	-
	C6C8	-	-	-	-	-
	C8: Caprylic Acid	-	-	5 – 8	≥ 6.5	-
	C8C10	-	-	-	13 – 15	≤ 4
	C10: Capric Acid	-	≤ 1.0	5-9	≥6.0	-
	C12: Lauric Acid	≤ 1.0	72-78	40-55	≥ 46.5	47-57
	C12C14	-	-	-	-	-
	C14: Myristic Acid	≥ 99	22-30	11-27	14-21	15-25
	C16: Palmitic Acid	≤ 1.0	≤ 1.0	5.2-11	7-13	7-11
	C18: Stearic Acid	-	-	1.8-7.4	7-14	1-3
	C18 1: Oleic Acid	-	-	4-9	≤ 0.5	14-20
	C18 2: Linoleic Acid	-	-	1-3	-	2-4
	C18 3: Linolenic Acid	-	-	-	-	≤ 0.5
	C20	-	-	-	-	-
	Others	-	-	-	-	-
Acid Value (mgKOH/g)		244-248	265-275	268-276	267-275	244-258
Saponification Value (mgKOH/g)		245-249	266-276	268-276	269-277	245-260
Iodine Value (gl <sub>2</sub> /100g)		≤ 0.5	≤ 0.5	6-12	≤ 0.5	19 Max.
Moisture (wt%)		≤ 0.2	≤ 0.2	≤ 0.3	≤ 0.2	≤ 0.2
Titer (°C)		52-54	32-38	22-26	23-29	24-28
Colour 5 ¼ R/Y		≤ 0.2R 2Y	≤ 0.2R 2Y	≤ 0.5R 2.5Y	≤ 0.3R 1.3Y	≤ 0.5R 3.0Y
Unsaponification (wt%)		≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Heat Stability		-	-	-	-	-

# Fatty Acid (3/3)

Fatty Acid				
Product Name		COVV Hydrogenated C12-18	COVV Dist. Palm Kernel C16C18	COVV CPO DFA
Product Description		Hydrogenated C12-18 Fatty Acid	Distilled Palm Kernel C16C18 Fatty Acid	CPO Distilled Fatty Acid
Approximate Fatty Acid Composition	C6: Caproic Acid	-	-	-
	C6C8	-	-	-
	C8: Caprylic Acid	-	-	-
	C8C10	-	-	-
	C10: Capric Acid	≤ 1.0	-	-
	C12: Lauric Acid	50-62	≤ 1.0	≤ 0.6
	C12C14	-	-	-
	C14: Myristic Acid	15-26	≤ 3.0	-
	C16: Palmitic Acid	8-14	20-35	39.3-47.5
	C18: Stearic Acid	7-14	7-10	3.5-6.0
	C18 1: Oleic Acid	-	50-60	36-44
	C18 2: Linoleic Acid	-	6.5-10	9-12
	C18 3: Linolenic Acid	-	≤1.0	≤0.4
	C20	-	-	-
Others	≤1.0	≤1.0	-	
Acid Value (mgKOH/g)		251-260	195-206	190-212
Saponification Value (mgKOH/g)		252-261	196-207	191-213
Iodine Value (gl2/100g)		≤1.0	50-70	50-62
Moisture (%)		≤ 0.2	≤ 0.2	≤ 0.1
Titer (°C)		28-33	≤ 45	-
Colour 5 ¼ R/Y		≤ 0.5R 2.0Y	≤ 0.5R 5.0Y	≤ 5(5R+Y)
Unsaponification (wt%)		≤ 1.0	≤ 1.0	≤ 0.5
Heat Stability		-	-	-
Degree of Splitting (%)		-	-	-

# Hydrogenated Distilled C8-18 Fatty Acid Blend

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Chemical - Physical Analysis	
Parameter	Standard
Acid Value (mg KOH/g)	267 – 275
Saponification Value (mg KOH/g)	269 – 277
Moisture (%)	≤ 0.2
Iodine Value (g I <sub>2</sub> /100 g)	≤ 0.5
Titer (°C)	23 – 29
Colour, (Lovibond 5 ¼")	≤0.3R 1.3Y
Unsaponifiable Matter (%)	≤ 0.05
Chain Distribution (%)	
C6	≤ 0.05
C8	≥ 6.5
C10	≥ 6.0
C8+10	13 – 15
C12	≥ 46.5
C14	14 – 21
C16	7 – 13
C18	7 – 14
C18:1	≤ 0.5



Oil				
Product Name		COVV RBDPO	COVV RBDBKO	COVV HRBDPO
Product Description		Refined Bleached Deodorized Palm Oil	Refined Bleached Deodorized Palm Kernel Oil	Hydrogenated RBDPO
Approximate Fatty Acid Composition	C6: Caproic Acid	-	-	-
	C8: Caprylic Acid	-	-	-
	C8C10	-	-	-
	C10: Capric Acid	-	-	-
	C12: Lauric Acid	-	-	≤0.6
	C14: Myristic Acid	-	-	≤1.8
	C16: Palmitic Acid	-	-	35 - 48
	C16:18	-	-	50 - 60
	C18: Stearic Acid	-	-	-
	C18 1: Oleic Acid	-	-	-
	C18 1: Oleic Acid Cis	-	-	-
	C18 1: Oleic Acid Trans	-	-	-
	C18 2: Linoleic Acid	-	-	-
	C18 3: Linolenic Acid	-	-	-
	C20	-	-	≤1
Free Fatty Acid (mgKOH/g)		≤0.1	≤0.1	≤0.1
Acid Value (mgKOH/g)		-	-	-
Saponification Value (mgKOH/g)		190 - 209	190 - 209	-
Moisture (%)		≤ 0.1	≤ 0.1	≤ 0.25
IV (g I2/100 g)		50 - 55	≤ 19	≤ 0.5
Titer (°C)		-	-	-
Colour (Lovibond 5 ¼")		≤ 3R	≤ 1.5R	≤ 3R/30Y
Unsaponifiable Matter (%)		-	-	-
DOS (%)		-	-	-
Peroxide Value (mg O2/100 g)		-	-	-

<b>Soap Noodle</b>	
<b>Product Name</b>	<b>COVV Soap Noodle 8020</b>
<b>Product Description</b>	<b>Soap Noodle Vegetable Base 8020 External FFA</b>
TFM (%)	≥ 78
Free Alkali (%)	≤ 1.0
FFA (% Palmitic)	≤ 1.0
IV (g I2/100g)	33-43
Moisture (%wt)	≤ 13.5
Gly (%wt)	≤ 1
NaCL (%wt)	0.4-0.8
EDTA (%wt)	≥0.025
EHDP (%wt)	≥0.025
Color Lovibond	≤0.1 R0.7Y

Surfactants	
Product Name	COVV Sodium Lauryl Isethionate
Product Description	Sodium Lauryl Isethionate
FFA (%)	8-14
Anion Active Total (%)	78-84
pH	4-6.5
C8	1.8-4.2
C10	1.2-2.8
C12	93-97
C14	≤0.5
C16	≤0.5
C18	≤0.5

Surfactants	
Product Name	COVV CAPB FA Preservative 30
Product Description	CAPB FA Preservative 30%
Active Content (wt%)	26-31
Nonvolatiles	33-40
Color Hazen	≤200
pH	4.5-5.5
Water (wt%)	60-67
Sodium Chloride (wt%)	4-6
Free Amine Coco Amido (wt%)	≤0.5

# Stearic Acid 38%

Chemical - Physical Analysis		
Parameter		Standard
Approximate Fatty Acid Composition	C6: Caproic Acid	-
	C6C8	-
	C8: Caprylic Acid	-
	C8C10	-
	C10: Capric Acid	-
	C12: Lauric Acid	-
	C12C14	-
	C14: Myristic Acid	≤ 3
	C16: Palmitic Acid	55 – 65
	C1618	-
	C18	35 – 42
	C18 1: Oleic Acid	≤ 0.5
	C18 2: Linoleic Acid	-
	C18 3: Linolenic Acid	-
	C20	≤ 1
Others	≤ 1	
Acid Value (mgKOH/g)		205 – 214
Saponification Value (mgKOH/g)		206 – 215
Iodine Value (gI <sub>2</sub> /100g)		≤ 0.5
Moisture (wt%)		≤ 0.3
Titer (°C)		53 – 57
Colour 5 ¼ R/Y		≤ 0.3R / 2.0Y
Unsaponification (wt%)		-
Heat Stability		-

# Stearic Acid 43%

Chemical - Physical Analysis		
Parameter		Standard
Approximate Fatty Acid Composition	C6: Caproic Acid	-
	C6C8	-
	C8: Caprylic Acid	-
	C8C10	-
	C10: Capric Acid	-
	C12: Lauric Acid	-
	C12C14	-
	C14: Myristic Acid	≤ 3
	C16: Palmitic Acid	50 – 58
	C1618	-
	C18	42 – 48
	C18 1: Oleic Acid	≤ 0.5
	C18 2: Linoleic Acid	-
	C18 3: Linolenic Acid	-
	C20	≤ 1
Others	≤ 1	
Acid Value (mgKOH/g)		206 – 212
Saponification Value (mgKOH/g)		207 – 213
Iodine Value (gl2/100g)		≤ 0.5
Moisture (wt%)		≤ 0.3
Titer (°C)		54 – 57
Colour 5 ¼ R/Y		≤ 0.3R / 2.0Y
Unsaponification (wt%)		-
Heat Stability		-



# Coconut Based Products

## Certifications



<b>Product Name</b>	COVV_Coconut Oil RBD
<b>CAS No.</b>	8001-31-8
<b>Certificates</b>	FSSC22000, GMP, HACCP, Halal, USDA Organic
<b>Available Packaging</b>	Heated Flexi, Heated ISO, Heated IBC, Drums

<b>Parameter</b>	<b>Standard</b>
Physical Appearance	Light yellow liquid @ room temp.
Taste/ Odour	Creamy to Bland
Extraneous matter	Free from foreign matters
% FFA (as Lauric Acid)	0.05 Max.
Peroxide Value, mEq/kg	1.0 Max.
Iodine Value (Cyclohexane)	7 – 11
Moisture (KF), %	0.1 Max.
Slip Pt. deg C	24 - 26
Color (5 1/4" Cell), Red	1.5 Max.
Color (5 1/4" Cell), Yellow	10 Max.

# Coconut Fatty Acid – Stripped & Hydrogenated

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Chemical - Physical Analysis	
Parameter	Standard
Iodine Value	1.0 Max.
Saponification Value	251.0 – 261.0
Acid Value	250.0 – 260.0
Melting Point, (Deg C)	28.0 – 32.0
Moisture	0.2 Max.
C10 and Below	1.0 Max.
C12	50.0 – 56.0
C14	18.0 – 25.0
C16	8.0 – 13.0
C18 total	8.0 – 16.0
Color, Lovibond 5 ¼", Y	2.0 Max.
Color, Lovibond 5 ¼", R	0.3 Max.
Color, APHA, Hazen	60 Max.

# Distilled Coconut C0818 Fatty Acid

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Chemical - Physical Analysis	
Parameter	Standard
Acid Value (mg KOH/g)	261 – 275
Saponification Value (mg KOH/g)	262 – 276
Moisture (%)	≤ 0.2
Iodine Value (g I <sub>2</sub> /100 g)	7 – 12
Titer (°C)	20 – 30
Colour, (Lovibond 5 ¼")	≤0.7R 5.0Y
Chain Distribution (%)	
C6	
C6	≤ 0.05
C8	4 – 8
C10	5 – 10
C12	46 – 53
C14	15 – 21
C16	3 – 8
C18	≤ 4
C18:1	5 – 12
C18:2	≤ 3

**Contact us -**  
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