

CERTIFICATE OF ANALYSIS

COA: 411108

Supplier: XMV Oxiteno México Planta Coatzacoalcos
Address: LAUREL325 Veracruz de Ignacio de la Llave. México
Manufacturer: INTERIOR DEL RECINTO PORTUARIO COATZACOALCOS S/N VERACRUZ DE IGNACIO DE LA LLAVE, MÉXICO, TELÉFONO : +52 921 211 0930

Customer:
Sales Order: 2142236
Invoice #: 14204
Customer PO: 00025216
Oxiteno Product Name: ALKEST TW 80
Lot: 250419Z018789
Status: Approved
Amount: 17.6T
Manufacture Date: 04/19/2025
Expiration Date: 04/19/2027

Tests	Analytical Method	Minimum Limit	Maximum Limit	Results
Identification (IR)	MA-1188	---	---	Pass
C14 Myristic, %	MA-1294		5.0	1.3
C16 Palmitic, %	MA-1294		16.0	4.4
C16:1 Hexadecenoic, %	MA-1294		8.0	0.1
C18 Stearic, %	MA-1294		6.0	1.7
C18:1 Oleic, %	MA-1294	58.0	90.0	80.5
C18:2 Linoleic, %	MA-1294		18.0	0.2
C18:3 Linolenic, %	MA-1294		4.0	0.0
Oleic acid content (C18:1), g/100g	MA-1295	22	24	24
Acid Value (C18:1), mgKOH/g	MA-1295	193	206	193
Iodine Value (C18:1), gI2/100g	MA-1295	80	92	86
Identification FCC	MA-1297	---	---	pass
Oxyethylene Content, %	MA-1327	65.0	69.5	66.7
Hydroxyl value, mgKOH/g	MA-525	65.0	80.0	74.2

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Residue on Ignition, %p	MA-612	0.25	0.04
Acidity Index, mgKOH/g	MA-638	2.0	1.3
Arsenic, as As, ppm	MA-705	1.0	< 0.0
Lead, as Pb, ppm	MA-705	2.0	< 0.2
Residual ethylene oxide, ppm	MA-706	1	0
Dioxane, ppm	MA-716	10	2
Heavy metals, ppm	MA-724	10	0
pH, 5wt% aqueous solution, 25°C	MA-729	6.00 7.00	6.73
Kinematic viscosity, 25°C, cSt	MA-766	300 500	442
Peroxide value, mEq/1000g	MA-780	9.0	2.0
Specific weight at 25°C	MA-798	1.06 1.09	1.07
Saponification value, mgKOH/g (w)	MA-810	45.0 55.0	48.7
Water, %p	MA-875	3.0	2.5
Gardner color, 25°C	MA-881	5	3

The product has the mentioned shelf life if kept under proper storing conditions.



Vicente Mauricio Barragan Salas

[LIMS] SAMPLE NUMBER: 1316624

[LIMS] CONTROL CODE: 13D6ADD1-8B1B-453B-99AB-AC46AAD651D7