



2780 Waterfront Pkwy E., Indianapolis IN 46214

Phone: 317-328-5660 Fax: 317-328-2359 www.calumetspecialty.com

Certificate of Analysis

PO Number:	NJ-094392	Order Number:	1038422
Product:	DRAKEOL® 7 LT MIN OIL NF	Shipping Date:	Jul 12, 2022
Cust. Mat. No:	270201	Date of Mfg:	Jul 8, 2022
Product Code:	300495125000	Qty:	6,363.646 UG6
Batch # :	2207072015	Container ID:	A7
Carrier:	0060001343-A CUSTOMER TRUCK		

Billing:	Shipping To:	Shipping From:
PRIDE CHEMICAL SOLUTIONS 6 LONG ISLAND AVENUE HOLTSVILLE NY 11742-0000	PRIDE SOLVENTS & CHEMICAL OF NJ 211 Randolph Ave Avenel NJ 07001-2402	Calumet Refining, LLC 138 PETROLIA ST KARNS CITY PA 16041-9222

Test Description	Units	Method	Min.	Max.	Results
API GRAVITY @ 60°F		D4052			35.6
SPECIFIC GRAVITY @ 25/25°C		D4052	0.8330	0.8610	0.8425
SPECIFIC GRAVITY @ 60/60°F		D4052			0.8468
COLOR, SAYBOLT		D156	30		30
VISCOSITY @ 40°C	cSt	D7042	10.80	13.60	12.45
VISCOSITY @ 100°F	SUS	D2161	65.0	75.0	71.5
FLASH POINT, COC (°F)	°F	D92			365
ODOR	P/F	USP/NF	PASS		PASS
WATER CONTENT	ppm	D1533		35	14
ACIDITY	P/F	USP	PASS		PASS
INFRARED ABSORPTION	P/F	USP	PASS		PASS
LIMIT OF PAH	P/F	USP	PASS		PASS
LIMIT OF SULFUR COMPOUNDS	P/F	USP	PASS		PASS
READILY CARBONIZABLE SUBS	P/F	USP	PASS		PASS
SOLID PARAFFINS	P/F	USP/NF	PASS		PASS
FDA 21 CFR 172.878	P/F	FDA	PASS		PASS

Analysis Certified By:	<u>Beau Bachman</u>	<u>Laboratory Manager</u>	<u>Beau Bachman</u>
	Printed Name	Title	Lab Signature/Loader

All sales of Products by Calumet Specialty Products Partners, L.P. and its subsidiaries and affiliates are subject to the applicable terms and conditions of sale at <http://www.calumetspecialty.com/customer-service/terms-of-sale>, which are incorporated herein by reference.

penreco




CALUMET
REFINING, LLC



2780 Waterfront Pkwy E. , Indianapolis IN 46214

Phone: 317-328-5660 Fax: 317-328-2359 www.calumetspecialty.com

Certificate of Analysis

PO Number:	NJ-094392	Order Number:	1038422
Product:	DRAKEOL® 7 LT MIN OIL NF	Shipping Date:	Jul 12, 2022
Cust. Mat. No:	270201	Date of Mfg:	Jul 8, 2022
Product Code:	300495125000	Qty:	6,363.646 UG6
Batch #:	2207072015	Containter ID:	A7
Carrier:	0060001343-A CUSTOMER TRUCK		

Billing:	Shipping To:	Shipping From:
PRIDE CHEMICAL SOLUTIONS 6 LONG ISLAND AVENUE HOLTSVILLE NY 11742-0000	PRIDE SOLVENTS & CHEMICAL OF NJ 211 Randolph Ave Avenel NJ 07001-2402	Calumet Refining, LLC 138 PETROLIA ST KARNS CITY PA 16041-9222

Suggested retest date is 3 years from the Date of Manufacture.

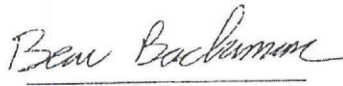
This Product is tested periodically by Infrared Absorption as prescribed under Identification in the USP/NF Monograph.

It is hereby guaranteed that the product is produced from substances that are not carcinogens according to the EU Dangerous Substances Directive and of which the full refining history is known.

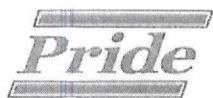
The CAS number for this material is 8042-47-5.

Caution: For manufacturing, processing, or repacking.

DRAKEOL® 7 LT MIN OIL NF is manufactured in full compliance to NF and US/FDA 172.878.

Analysis Certified By:	Beau Bachman	Laboratory Manager	
	Printed Name	Title	Lab Signature/Loader

All sales of Products by Calumet Specialty Products Partners, L.P. and its subsidiaries and affiliates are subject to the applicable terms and conditions of sale at <http://www.calumetspecialty.com/customer-service/terms-of-sale>, which are incorporated herein by reference.



PRIDE CHEMICAL SOLUTIONS OF N.J., INC.

211 Randolph Avenue • Avenel, New Jersey 07001 • Tel. (732) 499-0125 • Fax (732) 381-3614

CERTIFICATE OF ANALYSIS

Product: LIGHT MINERAL OIL NF (DRAKEOL 7)

Date: 07/21/2022

Pride Lot Number: NJ94392-CAL

Manufacturer: Calumet

Manufacturer Lot Number: 2207072015

Manufacture Date: 07/08/2022

Retest Date: 07/08/2025

Test	Method	Specification	Results
Appearance	USP	Clear Liquid	Passes
Identification by IR	USP	To Match STD	Passes
Specific Gravity @ 25/25°C	USP	0.818 – 0.880	0.844
Color, Saybolt	D1209	30 min	30
Acidity (mL 0.01N NaOH)	USP	NMT 1.0mL of 0.01NaOH	0.40mL
Identification B (viscosity@40°C)	USP	3.0 – 34.4 cst	12.35
Limit of polycyclic aromatic hydro.C	USP	To Match STD	Passes
Readily carbonizable substances	USP	To Match STD	Passes
Limit of Sulfur compounds	USP	No dark-brown color develops	Passes
Solid Paraffin	USP	Sample must be clear	Passes
Viscosity @ 100°F, SUS	USP	65.0 – 75.0	70.7

“As per the USP/NF test methods listed above, the above referenced sample is certified to meet or exceed all of the specification requirements as set by the most current U.S. Pharmacopeia Edition.”

Umu Barrie
Quality Director