

PRODUCT IDENTIFICATION

**Product Name:** D-Limonene 94% - Food Grade**CAS Number:** 5989-27-5**Molecular Formula:** C₁₀H₁₆**Molecular Weight:** 136.23 g/mol**Grade:** Food Grade**Purity / Concentration:** 94%**Synonyms:** D-Limonene, Limonene Oil

PRODUCT OVERVIEW

D-Limonene is a colorless liquid hydrocarbon classified as a terpene. It is primarily derived from citrus fruit peels and is known for its pleasant citrus aroma and solvent properties, making it suitable for various industrial and food applications.

CERTIFICATE OF ANALYSIS — TYPICAL VALUES

PARAMETER	UNIT	TYPICAL	MIN	MAX	TEST METHOD
Assay	%	94	93.5	94.5	Application-Specific
Refractive Index 20C	—	1.4637	1.46	1.474	Refractometry
Specific Gravity (25°C)	g/mL	0.84	0.838	0.845	IS: 548
Arsenic As	ppm	1	0	3	ICP-MS
Lead Pb	ppm	0.3	0	1	ICP-MS
Flash Point	°C	≥ 46 °C	—	—	Per specification

ND = Not Detected. Values are typical and may vary by lot.

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Clear, pale yellow liquid with citrus essence	Form	Liquid
Boiling Point	348 to 349 °F at 760 mmHg (NTP, 1992)	Melting / Freezing Point	-142.4 °F (NTP, 1992)
Flash Point	119 °F (NTP, 1992)	Solubility	Organic solvent-soluble, water-insoluble
Molecular Formula	C ₁₀ H ₁₆	Molecular Weight	136.23 g/mol

APPLICATIONS

Contact Alliance Chemical for application guidance.

STORAGE & HANDLING

- Store in a cool, dry place away from direct sunlight and heat sources.
- Use containers made of HDPE or glass to prevent chemical reactions.
- Avoid contact with strong oxidizing agents and acids.
- Ensure proper ventilation when handling to minimize inhalation exposure.
- Wear appropriate personal protective equipment (PPE) including gloves and safety goggles.

AVAILABLE PACKAGING

- 1 Quart
- 1 Gallon
- 5 Gallon
- 15 Gallon
- 55 Gallon
- 275 Gallon
- 330 Gallon

SAFETY SUMMARY (CROSS-REFERENCE TO SDS)

Signal Word: **Danger**



Hazard Statements:

- H226: Flammable liquid and vapor [Warning Flammable liquids]
- H304: May be fatal if swallowed and enters airways [Danger Aspiration hazard]
- H315: Causes skin irritation [Warning Skin corrosion/irritation]
- H317: May cause an allergic skin reaction [Warning Sensitization, Skin]
- H400: Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]
- H412: Harmful to aquatic life with long lasting effects [Hazardous to the aquatic environment, long-term hazard]

Emergency Contact: CHEMTEL - 800-255-3924 (24 Hours/Day, 7 Days/Week)

For complete safety information, refer to the Safety Data Sheet (SDS) for this product.

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