

SPECIFICATION

Product Name: Neem Oil
Chemical Formula: N/A
CAS Number: 8002-65-1
Molecular Weight: 720.07 g/mol
Appearance: Brown to greenish brown oily liquid.
Odor: Strong, pungent, and garlic-like.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Appearance	Organoleptic	Conforms	Oily liquid at approx. 20°C, turning waxy then solid at temperatures below approx. 10°C
Refractive Index @ 20°C	-	1.470	1.450 – 1.490
Specific Gravity @ 20°C	g/ml	0.933	0.900 – 0.975
Acid Value	mg KOH/g	7.75	≤ 20.0
Peroxide Value	meq O ₂ /kg	3.95	≤ 20.0
Saponification Value	mg KOH/g	194.30	190 – 200
Unsaponifiable Matter	%	0.5	≤ 4.0
Heavy Metals	PPM	n/d	≤ 10.0
Azadiractin Content	PPM	625.35	≤ 2500

Flash Point (Closed Cup)	°C	Conforms	>280°
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Physical Properties

- Solubility: Insoluble in water. Soluble in solvents like hexane, chloroform, and alcohol (partially) in organic solvents. Fully miscible with other vegetable oils.

Shelf Life & Storage

- Shelf Life: 2 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a cool, dry place (preferably below 25°C). Keep in a tightly sealed container. Protect from direct sunlight, heat, and air exposure. Use amber or opaque containers to reduce oxidation.

Applications

- Use: Acts as a natural pesticide and insect repellent. Used in foliar sprays and soil treatment. Controls pests like aphids, mites, whiteflies, and caterpillars. Used in eco-friendly cleaning and pest control products. Used in biopesticide formulations. Used in animal skin treatments. Used in soaps, shampoos, creams, and lotions. Protects indoor and outdoor plants from pests and diseases.
- Dosage: Depends on purpose and method of use.

Packaging

- Standard Packing: 10 Liter Carboy and 1 Liter Bottle or as per customer requirement.
- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.