

Neem Oil Product Specification

Product Name	Neem Oil
Geographical Origin	India
Botanical Name	Azadirachta indica
Parts Used	Seeds
CAS No.	8002-65-1
Batch No.	MINMCO/167/0617
Method of Extraction	Cold Pressed method
Color and Appearance	Greenish brown liquid
Odor	Characteristic strong, repulsive odor
Refractive Index	1.4651
Flash Point	Above 210 ⁰ C
Iodine Value	69.6
Saponification Value	180.5
Acid Value	07.35
Unsaponification Value	1.27
Shelf life	18 months in original packaging.
Solubility	Slightly soluble in water, soluble in alcohol and oils
Storage Conditions	Store in cool, dry place in tightly sealed containers
Safety	As Per MSDS

PHYSICOCHEMICAL				
1	Appearance	Greenish Brown oil	Greenish Brown Oil	Physical examination
2	Odour	Pungent Odour	Pungent Odour	Sensory
3	Taste	Bitter	Bitter	Sensory
4	Color Lovibond in 5 ¼ inch cell (Y+5R basis)	< 45.0	28.2	AOCS Cc 13e - 92
5	Moisture and Volatile matter %	< 3.0	0.23	AOCS Ca 2c-25
6	Refractive Index at 40 o C	1.460 – 1.470	1.4616	AOCS Cc 7- 25
7	Acid Value (g/100 g)	< 15.0	2.62	AOCS Cd 3d-63
8	Iodine Value (mg KOH/g)	65.0 – 80.0	74.93	AOCS Cd 1 -25
9	Saponification number	180.0 - 205.0	199.1	AOCS Cd 3-25
10	Unsaponifiable Matter %	< 2.0	1.29	AOCS Ca 6b-53
MICROBIOLOGICAL				
1	Total Aerobic Count	< 100	10	IS: 5401 (Part-1):2002
2	Yeast & Mould Count	Absent	Absent	IS:5403-1999
3	Salmonella spp	Absent	Absent	IS:5887(Part-3):1999
4	Coliform	Absent	Absent	IS:5401-(Part-1):2002
5	E.coli	Absent	Absent	IS:5887(Part-1):1976
6	Staphylococcus Aureus	Absent	Absent	IS:5887(Part-8):2002