



**SIGMA<sup>®</sup>**  
**UNIVERSITY**

# Neem





## Synonym

- Gujarati: લીમડો
- Hindi: नीम
- English: Indian lilac, Margosa tree, and Nimtree.

## Botanical name

*Azadirachta indica* A.

# Family

- Meliaceae

## Chemical Constituents

- Triterpenoids (e.g., azadirachtin)
- Vitamins: Such as vitamin C and carotene, are also present.
- Essential Oils: Contain various compounds, including flavonoids and polyphenols, contributing to antimicrobial properties.
- Alkaloids: These nitrogen-containing compounds are found in various plant parts.

## Therapeutic Uses

- anti-inflammatory
- insecticidal
- antifungal
- antibacterial

## Marketed Preparations

- Leaf juice and bark powder used in herbal formulations.
- Decoctions and infusions for respiratory, digestive, and gynecological uses.
- Neem Oil: Extracted from seeds, it's a primary ingredient in products like soaps, cosmetics, and oil-based pesticide formulations.

- Health and Pharmaceuticals: Used in traditional and modern formulations for a variety of ailments, including skin conditions, wounds, and infections.
- Neem Extract: Concentrated liquid or powdered forms of various neem parts (leaves, bark, seeds), used in a wide range of products.