

Performance and formulation advantage.

Pharmako's CPO Lavender Oil is an innovative material development which allows lavender oil to be converted into a powder, which is not sensitive to temperature or pressure.

With Pharmako's CPO technology, lavender oil can now be incorporated into novel formats or combinations.

Pharmako CPO advantage.

CPO Lavender Oil is an alternative to traditional micro-encapsulated oil products, which struggle with leaching and sticking, leading to stability and spoilage issues.

The CPO technology absorbs the oil into specially designed solid silica particles, overcoming the challenges of micro-encapsulation. The CPO process offers high stability with less sensitivity to oxidation.

CPO Lavender Oil advantage over standard lavender oil:

- compressible (for tableting).
- water dispersibility.
- improved functionality.
- enhanced bioavailability.

CPO formulations can be customised:

- for customer requirements.
- for regulatory frameworks.
- for dosage format(s).

CPO Lavender Oil can be used in multiple product sectors and applications including:

- dietary supplements,
- cosmetic,
- pharmaceutical,
- veterinary,
- food and beverage.

CPO Lavender Oil.

- Made in Australia.
- Made from pharmacopoeial grade ingredients.
- Has enhanced stability.
- Pleasant odour can be utilized.
- Purity from sourced material is validated through testing for heavy metals, pesticides by Australian Government Dept: National Measurement Institute.



ABOVE: Previously lavender could only be delivered in oil form, but now with Pharmako's CPO technology it can be made into powder, tablet and effervescent forms.

WINNER
NUTRA
INGREDIENTS®
AWARDS 2018

WINNER START UP AWARD

CPO Lavender Oil extends the potential uses of this well-known essential oil.

Lavender is traditionally recognized having a variety of therapeutic and curative properties, ranging from inducing relaxation, mild headache relief to treating parasitic infections, burns, insect bites, and spasm.

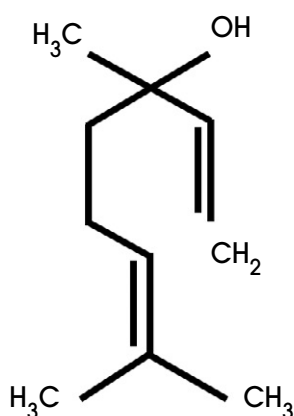
Essential oil of lavender is purported to be antibacterial, analgesic antifungal, anxiolytic, antidepressant, carminative (smooth-muscle relaxant), as well as to have beneficial immunomodulatory effects on wound healing.

Use of Lavender Oil has extended from topical to oral use in recent years.

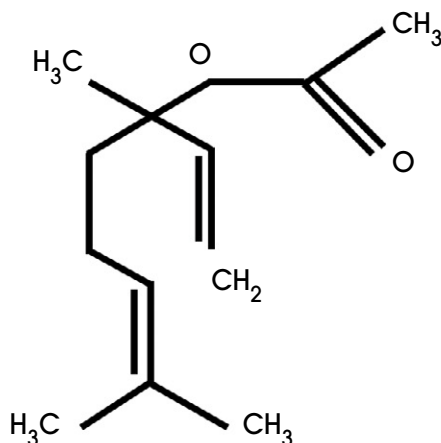
Modern Applications.

Modern sedentary lifestyles and stressful work and family environments are the major factors for the growing incidence of anxiety disorders around the world.

Primary constituents of lavender oil.



Linalool



Linalyl Acetate

Global GAD (Generalized Anxiety Disorder) market is estimated to grow at 2.5% CAGR to reach \$7.5 billion by 2023.

CPO Lavender Botanical Source:
Lavandula angustifolia

CPO Lavender Oil is high in the 2 primary constituents of lavender oil:

- linalool and
- linalyl acetate.

Potential product uses for CPO Lavender Oil:

Stress product – benefits:

- Provide relief to symptoms of mild anxiety.
- Calm the nerves.
- Help reduce irritability.
- Help stop worrying.

Stress product – benefits:

- Improve disturbed sleep.
- Manage restlessness.
- Assist relaxation.

Alternative for stress.

Existing pharmacotherapies for anxiety disorders are limited by:

- Onset of action,
- Tolerance
- Dependence,
- Withdrawal,
- Abuse potential.



Please note this product description sheet is applicable for customers in countries all over the world and hence it may contain statements or product classification not applicable to your country. The claims made are in reference to ingredients only, and do not refer to finished products. The claims may not comply with different regulations. The marketer of any finished product containing any ingredient is responsible for assuring that the destination of the product and the claims made for the finished product are lawful and comply with all applicable laws and regulations of the country or countries in which the product is to be sold.

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