

**Title: Green leaf alcohol: Inhalation therapy and their production****Rakhee<sup>1\*</sup>, Prateek Singh<sup>1</sup>, Saleem Javed<sup>2</sup>, Raj Kishore  
Sharma<sup>3</sup> and Bipin Gupta<sup>4</sup>**<sup>1</sup>Venkateshwara Mint Products, India<sup>2</sup>Jamia Millia Islamia, India<sup>3</sup>University of Delhi, India<sup>4</sup>National Physics Laboratory, India**Received Date: : May 10, 2023 Accepted Date: May 12, 2023 Published Date: June 20, 2023**

This research is intended to be a narrative review of the relevant academic literature as well as the work we have work done in our industry. Leaf alcohol (green aroma) is well known for having a potent, distinctive aroma of fresh grass. Inhaling green aromas such as Trans-3-hexenol, Cis-3-hexenol, Trans-2-hexenol and Cis-2-hexenol, can benefit the airways by acting as an antioxidant and an anti-inflammatory. Pharmacological activity of these leaf alcohols absorbed through inhalation may be also beneficial to promote brain functions by decreasing mental fatigue, inducing relaxation and improving cognitive performance and mood. It is frequently used in industries including beverages, confectionery, flavoring, personal care products, perfumery, oral care, nutraceuticals and pharmaceuticals (to reduce schizoid tendencies, antifungal activity, anticancer, antistress and antimicrobial activity). Its esters are frequently used as flavoring and fragrance ingredients. Currently, there are two ways to prepare cis-3-hexenol in industrial production: biosynthetic and synthetic. But due to the market's inability to keep up with the increase in demand, leaf alcohol is frequently in short supply. The difficulty and shortcomings of the current techniques for producing leaf alcohol are the cause of the shortage.

A high yield method is developed for leaf alcohol to prepare "Trans-3-hexenol and Cis-3-hexenol" in our industry. The photo reactor technique is used in the presence of UV light and is easy, practical, affordable and environmentally friendly.

These findings may have beneficial ramifications for landscape design, public wellness and personal happiness on bigger scales.

This abstract discusses the industrial production of natural products, the productivity-boosting effects of new technologies and the positive effects on psychological and physiological health.

Keywords: Cis-3-hexenol, Trans-3-hexenol, Photo reactor.

**Biography**

Rakhee is currently working as Research scientist in Venkateshwara Mint Products, Pvt. Ltd. Company and Savory Aroma India Pvt. Ltd. Company in India. She is expertise in synthesis of natural products, API intermediates in industrial level such as Cis-3-hexenol, Cis-3-hexyn-1-ol, Benzyl alcohol etc. She manages the manufacturing of flavors, fragrances, essential oil, perfume, aromatic compounds, natural extract etc.