

A Comprehensive Analysis of the Diverse Components of Essential Oils in *Chromolaena odorata* L.

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Abstract: *Chromolaena odorata* is luxuriantly growing weed, found open spaces, roadsides, railway station tracks sides and wastelands. Flowers of this plant has peculiar smell. This article reviews on essential oil components studied in different countries from different plant parts. It is found that variations of components of essential oil in different countries and even in different locations of same country. Some components are same but their percentage are different. Difference in yield, number of components and percentage is due to difference in climatic conditions and geographical locations. Certain components such as germacrene D, geijerene, pinene, pregeijerene, caryophyllene, murolene are common in most of countries. Because of these components aroma is similar. Variation in components suggest derivatives of the compounds due to disparity in climatic and edaphic conditions. This difference in components of essential oil will create a new research idea to find out mechanism of essential oil formation, factors affecting the mechanism or pathways of essential oil formation.

Keywords: *Chromolaena odorata*, essential oil components, climatic variation, geographical variation

