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Nutraceuticals and Pharmaceuticals



CHEMICAL COMPOSITION OF FLOWER ESSENTIAL OIL *SANTOLINA CHAMAECYPARISSUS* L.

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The genus *Santolina* (Asteraceae family) is a taxonomically complex group of plant species widely distributed in the Mediterranean region. *Santolina chamaecyparissus* L., commonly referred to as cotton lavender, is a hardy aromatic evergreen shrub with a dense mound of attractive grayish-silver foliage. It has been widely used in traditional medicine since the ancient times due to its biological properties. The volatile components of the *S. chamaecyparissus* flowers from Medicinal plant collection garden Institute of Field and Vegetable Crops Novi Sad, were analyzed by GC and GC-MS. Among the 71 compounds presented in the essential oil, major components were artemisia ketone (36.1%) and vulgarone B (22.1%). Both of these compounds from *S. chamaecyparissus* essential oil possess strong antimicrobial activity. Apart from this, artemisia ketone has a herbaceous odour, and can be used as flavoring and as a natural food additive. It is used in pharmaceutical products for its functional properties, as well as in perfume industry for the fragrance.

Keywords: Cotton lavender, Volatile components, Artemisia ketone, Vulgarone B

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