



## The chemical composition of the aerial parts' essential oil of *Limonium lobatum* (L.f.) Chaz. growing wild in Algeria

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### ABSTRACT

The *Limonium* genus (Plumbaginaceae) includes several species of perennial herbs and shrubs belonging to a particular type of halophytes, known as 'recretohalophytes'. *Limonium* species are widely distributed in the Mediterranean region, mainly in the North-Eastern and Southern countries and several bioactivities have been well documented. In the present study, the chemical composition of the essential oil (EO) of the aerial parts of *Limonium lobatum* (L.f.) Chaz., a species never chemically previously studied and collected in Algeria, which grows in South Spain, North Africa, and SW Asia, was analysed using GC-MS. The main constituents of the EO were monoterpenes involving eucalyptol (14.21%),  $\beta$ -pinene (8.62%),  $\beta$ -myrcene (8.18%). Among the sesquiterpene compounds  $\beta$ -caryophyllene (8.94%) was the major one. The chemical profile of the EO presented here was compared with the EOs of previously investigated *Limonium* taxa. Furthermore, a complete literature review on the ethnopharmacological uses of *Limonium* species was performed.

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### KEYWORDS

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