

عنوان مقاله:

.Study on Chemical Composition of Essential Oil in *Cotinus coggygria* Scop (Smoke Tree) from Iran

محل انتشار:

مجله گیاهان دارویی و محصولات فرعی، دوره 8، شماره 1 (سال: 1398)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

Plants of the family Anacardiaceae have a long history of use by various peoples for medicinal and other purposes. *Cotinus coggygria*, also known as the "smoke tree", is one of the two species constituting a small genus of the family Anacardiaceae, viz., *C. coggygria* Scop. (syn.: *Rhus cotinus* L.) The Iranian smoke tree, plant material air-dried. *C. coggygria* were collected in early stage of flowering on ۱۲ July ۲۰۱۷ and seconded sample were extracted on late stage of flowering on ۱۰ october ۲۰۱۷ in Research Institute of Forests and Ranglands. Both samples essential oil were extracted by water-distilled (Clevenger apparatus type) for ۳ hrs. on early stage of flowering (۷۵ gram) on ۱۲ July ۲۰۱۷ and seconded sample were extracted on late stage of flowering (۴۰۰ gram) on ۱۰ october ۲۰۱۷ were ۰.۶۶% and ۰.۰۳۲% (V/W), respectively, and analyzed by GC and GC/MS. Main components from early stage of flowering were n-dodecanol (۷.۶%), spathulenol (۷.۵%), (۲Z, ۶E)-farnesyl acetate (۷.۱%), germacrene B (۷%) and isolongifolol (۴.۷%), and for late stage of flowering were (Z)- β -ocimene (۴۵.۸%), (E)- β -ocimene (۶.۹%), α -pinene (۷.۶%) and trans-sabienene hydrate (۶.۹%), identified. Commercial-grade ocimene is used as a starting material for the manufacture of a number of perfume chemicals, and it is also used occasionally as a perfume material since it creates very pleasant effects with bay oil in modern spicy-herbaceous fragrances.

کلمات کلیدی:

Anacardiaceae, *Cotinus coggygria*, Main components, chemical composition

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