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Research Article

## Essential oil composition of two *Centaurea* L. (Asteraceae) species from Turkey

Ömer KILIÇ<sup>a,\*</sup>

<sup>a</sup> Department of Garden and Park Plants, Technical Vocational College, Bingol University, Bingol, TURKEY

\* Corresponding author's e-mail address: okilic@bingol.edu.tr

### ABSTRACT

In this study, aerial parts of *C. cynaus* L. and *C. depressa* Bieb. were analysed by HS-SPME/GC-MS. As a result thirty five and thirty seven components were identified representing 92.3% and 91.1% of the oil, respectively. Germacrene D (14.8%), caryophyllene oxide (19.6%) and butanal (8.7%) were detected the main compounds of *C. cynaus*, however germacrene D (20.6%), caryophyllene oxide (13.3%) and  $\beta$ -eudesmol (12.6%) were detected the major constituents of *C. depressa*.

**Keywords:** *Centaurea*, Essential oil, Germacrene D, Caryophyllene oxide

## İki *Centaurea* L. (Asteraceae) Türünün Uçucu Yağ Kompozisyonu

### ÖZET

Bu çalışmada *C. cynaus* L. ve *C. depressa* Bieb. türleri HS-SPME/GC-MS tekniği ile analiz edildi. Sonuçta, sırasıyla toplam yağ miktarları olan %92.3 ve %91.1' lik değerlerden, otuzbeş ve otuzyedü bileşen tespit edildi. Germakren D (%14.8), karyofillenoksit (%19.6) ve butanal (%8.7) *C. cynaus*'un; germakren D (%20.6), karyofillenoksit (%13.3) ve  $\beta$ -eudezmol (%12.6) ise *C. depressa*'nın ana bileşenleri olarak tespit edildi.

**Anahtar Kelimeler:** *Centaurea*, Uçucu yağ, Germakren D, Karyofillen oksit