In this study, volatile components of *C. orientalis* subsp. *orientalis* and *C. orientalis* subsp. *szovitsii* which are belonging an important howthorn taxa for Turkey, was determined. Leaf and flower samples of plant taxa were collected from Muğla-Fethiye in 2012 and dried in room temperature for determining to volatile contents of howthorn taxa and these contents were determined by GC-MS. As result of analyses, totally 53 volatile components belonging to *C. orientalis* subsp. *orientalis* and *C. orientalis* subsp. *szovitsii* taxa were determined. According to GC-MS results, most effective components were determined as 2-Hexenal (38.55%), 3-Hexenol (13.98%), Capronaldehyde (6.81%) for *C. orientalis* subsp. *orientalis* and Propyl methyl ketone (26.60%), Butyraldehyde (9.37%), 2-Hexenal (6.55%) in case *C. orientalis* subsp. *szovitsii*. 