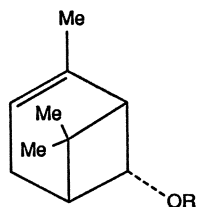


37.1 Introduction

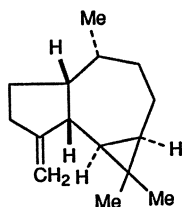
Ebushicao, Herba Centipedae, is the dry whole plant of *Centipeda minima* (L.) A. Braun et Aschers. (Asteraceae) collected in summer or fall when the plant blooms. This official medicinal herb is recommended in traditional Chinese medicine as an antiallergic, antitussive, and expectorant agent for treatment of cold, nasal allergy, and asthma.

37.2 Chemical Constituents

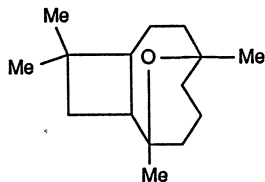
The n-hexane soluble fraction of the chloroform extract of *C. minima* contained a large amount of volatile compounds, from which heptan-2-ol, hepta-2,4-dien-1-ol, isobutyric acid, benzylalcohol, chrysanthenol (37-1), chrysanthenyl acetate (37-2), methyl linoleate, β -gurjunene (37-3), methyl palmitate, deca-2,4-dien-1-ol, ethyl palmitate, phytol, caryophyllane-2,6-oxide (37-4), and dihydroactinidiolide (37-5) were detected by GC/MS [1].



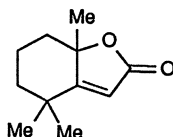
Chrysanthenol (37-1): R=H
Chrysanthenyl acetate (37-2): R=AC



β -Gurjunene (37-3)



Caryophyllane-2,6-oxide (37-4)



Dihydroactinidiolide (37-5)

From the methanol soluble fraction two sesquiterpene lactones, arnicolide C (37-6) and 6-O-seneciopylenin (37-7) were isolated, together with aurantiamide