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GC-MS Analysis of Essential Oil from the Leaves and Fruits of Artemesia Campestris from Algeria

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Abstract : The chemical composition of the essential oils obtained by hydrodistillation from Artemisia campestris L (family Asteraceae) collected in Djebel Amour (Sahara Atlas, Algeria). Aerial parts were also evaluated by gas chromatography (GC) and gas chromatography coupled to mass spectrometry (GC-MS). The analyses for leaves and fruits of A. campestris resulted in the identification of thirty-one compounds, representing 91.8 % of the total oil and the yields were 0.33% (v/dry weight). The main components were β-pinene and sabinene (25.6% and 17% respectively) followed by α-pinene (9.9%), limonene (6.6 %) and p-cymene (4.1%).

Keywords : essential oil, GC-MS, Artemesia campestris, Algeria
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