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Characterization of Lipids and Fatty Acid Methyl Ester Contents in Leaves and Roots of *Crocus vallicola*

Nurettin YAYLI, Zerrin KIRAN, Hasan SEYMEN, Hasan GENÇ
Karadeniz Technical University, Faculty of Science,
Department of Chemistry, 61080, Trabzon-TURKEY
Mustafa KÜÇÜKİSLAMOĞLU
Sakarya University, Faculty of Science,
Department of Chemistry, Sakarya-TURKEY

Abstract: The chemical composition of the fatty acids methyl esters (FAMES) and other lipids in leaves and roots of *Crocus vallicola* were analyzed by gas chromatography-mass spectrometry (GC-MS). In this work, twenty-eight compounds, including 22 FAMES, 1 aldehyde, 3 hydrocarbons (substitute alkane and alkene), 2 alcohols in the leaves and twenty-one compounds (17 FAMES, 1 anhydride, 1 substitute alcohol, 1 ketone, 1 substitute amide) in the roots were identified by GC-MS from *C. vallicola*. The FAMES in leaves and roots were highly similar; only the amounts of the esters were different. Key Words: *Crocus vallicola*, leaves, roots, FAMES

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