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Lichen compounds have been classified and divided into the following groups by Asahina and Shibata (1971) and Dayan and Romagni (2001a): (1) aliphatic lichen substances, which mainly include acids, zeorin compounds, and polyhydric alcohols; (2) aromatic lichen substances, which mainly include pulvic acid derivatives, depsides, depsidones, quinones, xanthone derivatives, diphenyleneoxide derivatives, nitrogen-containing compounds, triterpenes, and tetronic acids; and (3) carbohydrates or ...

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Most of these lichen substances act as an important character for identification of lichens (chemotaxonomy). The lichen substances are identified by performing colour spot test or thin layer chromatography (TLC) or by high performance liquid chromatography (HPLC).

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This book gives the analytical and spectroscopical data of known lichen substances as well as a key to their identification and It serves as a chemotaxonomical key to the identification of lichen species.

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Finally, a key for the identification of lichen substances is presented. The number of lichen substances with known structure is about 700. It is the aim of this book to help the lichenologist and the natural product chemist in the identification of this large group of plant metabolites.

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identification of lichen substances It comprises methods for the isolation and identification of lichen substances by physical and spectroscopic methods, microcrystallization, thin layer chromatography, high performance liquid chromatography, gas liquid chromatography and derivatization.

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