

Chemical composition of the resin essential oil of *Canarium album* from Vietnam

Giang P.M., Konig W.A., Son P.T.

Faculty of Chemistry, College of Natural Science, Vietnam National University, 19 Le Thanh Tong Street, Hanoi, Viet Nam; Institut für Organische Chemie, Universität Hamburg, D-20146 Hamburg, Germany

Abstract: The composition of the essential oil obtained from the resin of *Canarium album* (Lour.) Raeusch, Burseraceae, growing in Vietnam, was studied by GC and GC/MS. Twenty-nine compounds representing 95.2% of the oil were identified. Monoterpenoids made up 93.2% of the oil, with α -pinene (33.3%), β -terpinene (19.4%), γ -terpinene (14.1%), and terpinen-4-ol (11.9%) as the main components. Sesquiterpenoids made up 2.0% of the oil, and the content of each individual was below 0.5% of the oil. © 2006 Springer Science+Business Media, Inc.

Author Keywords: β -terpinene; α -pinene; γ -terpinene; Burseraceae; *Canarium album*; GC/MS; Resin oil; Terpinen-4-ol

Index Keywords: Burseraceae; *Canarium album*

Year: 2006

Source title: Chemistry of Natural Compounds

Volume: 42

Issue: 5

Page : 523-524

Link: Scopus Link

Correspondence Address: Giang, P.M.; Faculty of Chemistry, College of Natural Science, Vietnam National University, 19 Le Thanh Tong Street, Hanoi, Viet Nam; email: phanminhgiang@yahoo.com

ISSN: 93130

DOI: 10.1007/s10600-006-0204-5

Language of Original Document: English

Abbreviated Source Title: Chemistry of Natural Compounds

Document Type: Article

Source: Scopus

Authors with affiliations:

1. Giang, P.M., Faculty of Chemistry, College of Natural Science, Vietnam National University, 19 Le Thanh Tong Street, Hanoi, Viet Nam
2. Konig, W.A., Institut für Organische Chemie, Universität Hamburg, D-20146 Hamburg, Germany
3. Son, P.T., Faculty of Chemistry, College of Natural Science, Vietnam National University, 19 Le Thanh Tong Street, Hanoi, Viet Nam

References:

1. Pham, H.H., (1992) An Illustrated Flora of Vietnam, 2, p. 450. , Published by the author, Montreal
2. Vo, V.C., (1997) Dictionary of Vietnamese Medicinal Plants, Medicine, Ho Chi Minh City, p. 1249

3. Hiromu, K., Yu-Jen, C., Mitsuo, M., (1976) Yakugaku Zasshi, 96, p. 293
4. Hiromu, K., Mitsuo, M., Hiroshi, K., Kameoka, H., Miyazawa, M., Kato, H., (1976) Nippon Nogei Kagaku Kaishi, 50, p. 85
5. Tran, D.T., Le, V.T., Hoang, V.L., Nguyen, X.D., Ngo, X.L., (2004) J. Essent. Oil-bearing Plants, 7, p. 125
6. Hiromu, K., Mitsuo, M., (1976) Yukagaku, 25, p. 561
7. Joulain, D., König, W.A., (1998) Atlas of Spectral Data of Sesquiterpene Hydrocarbons, , E.B.-Verlag, Hamburg
8. D. H. Hochmuth, W. A. König, and D. Joulain, MassFinder 2.3, Software & Data Bank, Universität Hamburg, 2003, Available at: www.massfinder.com

Download Full Text: 0637.pdf