

عنوان مقاله:

GC-Mass analysis of the volatile components and antioxidant activity of *Prosopis farcta* from tow areas of Iran

محل انتشار:

اولین همایش ملی گیاهان دارویی، طب سنتی و کشاورزی ارگانیک (سال: 1393)

تعداد صفحات اصل مقاله: 8

نویسندگان:

Mohammad Reza Enayat - *Essential Oil Research Institute, University of Kashan*

Abdolrasoul H Ebrahimabadi - *Essential Oil Research Institute, University of Kashan*

Hossein Batooli - *Isfahan Research center of Natural Resources, Kashan station*

Zahra Ghanbari - *Essential Oil Research Institute, University of Kashan*

خلاصه مقاله:

The volatile components of *P. farcta* (pods), growing wild in Zabol and Kashan, were analyzed by GC and GC-MS. Among components, which were identified, Octanoic acid (4.63%), Nonanoic acid (4.72%), Thymol (11.31%), Hexadecanoic acid (33.65%), oleic acid (22.04%) (Zabol), 1-Hexanol (4.59%), 3-Nonen-1-ol (4.96%), Nonanoic acid (4.65%), 2(3H) - dihydro-5-pentyl Furanone (9.95%), Hexadecanoic acid (16.93%) and oleic acid (12.15%) (Kashan) were the main constituents. But, in other report from Tunisia Methyl hexadecanoate, 9-Methyl octadecanoate, Phytol and 9-Ethyl octadecanoate were mentioned as major component. Antioxidant potential of the extracts were evaluated using Inhibition of hydrogen peroxide free radical that roots (Zabol area: IC₅₀=14.12 µg/ml and Kashan area: IC₅₀=10.72µg/ml) and branches (Zabol area: IC₅₀=23.44µg/ml and Kashan area: IC₅₀=14.70µg/ml) of the plant showed strong effectiveness in this antioxidant test. Total phenolic contents of the plant extracts were also measured .by Folin-Ciocalteu reagent and results this test were parallel with antioxidant test

کلمات کلیدی:

Prosopis farcta, Volatile components, Antioxidant activity, Total phenol and Extract

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/329990>

