

## عنوان مقاله:

A Comparative Study of Some Nuts And Seeds Constituents Available in Local Market at Misurata City-Libya

## محل انتشار:

دوفصلنامه ایرانی شیمی تجزیه, دوره 8, شماره 1 (سال: 1400)

تعداد صفحات اصل مقاله: 9

## نویسندگان:

Abdulfattah Alkheraz - *Chemistry Department, Faculty of Science, Misurata University, Misurata, Libya*

Mohammed Sebsi - *Chemistry Department, Faculty of Science, Misurata University, Misurata, Libya*

Mohamed Sassi - *Chemistry Department, Faculty of Education, Misurata University, Misurata, Libya*

Khaled Elsherif - *Chemistry Department, Faculty of Science, University of Benghazi, Benghazi-Libya*

## خلاصه مقاله:

The aim of this study was to estimate and compare some of chemical constituents in nuts and seeds consumed as snacks and available in the local market of Misurata city in Libya. ۱۸ kinds of local and imported raw and roasted nuts and seeds samples were randomly collected from stores distributed across the city, with ۳ - ۴ replicates of each kind, in order to estimate the concentrations of some chemical components and heavy elements, which were lead (Pb), cadmium (Cd), Iron (Fe), copper (Cu), chromium (Cr), manganese (Mn), cobalt (Co), zinc (Zn), nickel (Ni), moisture, ash, total solids and protein. The dry digestion method was used to prepare the samples for heavy metals determination using Flame Atomic Absorption Spectrometer. Also, moisture, ash and total solids contents were determined, and Kjeldahl method was used to estimate proteins. The results showed that the average concentrations of heavy metals varied significantly with sample kind. The levels of the studied metals were as follows: ۰.۰۷۵ - ۱.۱۶۷, ۳۱.۵۰ - ۱۱۶.۰۰, ۰.۳۲۵ - ۱.۳۲۵, ۹.۴۲۵- ۷۱.۰۰, ۰.۰۲۵-۳.۸۷, ۸.۳۲۵- ۲۴.۸۲۵, ۰.۱۷۵- ۱.۲۵۰, ۰.۰۵۰- ۰.۷۵۰, ۴۳.۰۰- ۹۸.۳۲۵ mg/kg, for Co, Zn, Ni, Mn, Pb, Cu, Cr, Cd, and Fe, respectively. Also, levels of moisture contents, ash contents, total solids contents, and protein levels were: ۴.۰ - ۸.۵%, ۲.۰ - ۱۱.۳۹%, ۹۱.۵ - ۹۶.۰%, and ۱۱.۸ - ۳۳.۲%, respectively. Most of the obtained results were consistent with the previous studies and within the permissible limits

## کلمات کلیدی:

Nuts, Seeds, Heavy metals, Chemical Constituents

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1230284>

