

REVUE ROUMAINE DE CHIMIE (ROUMANIAN JOURNAL OF CHEMISTRY)

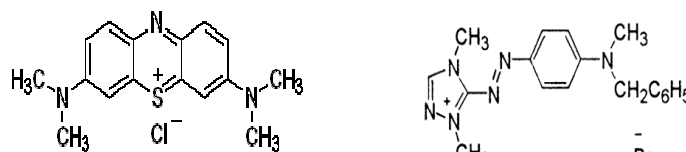
Tome 65, N° 2

Février 2020

PAPERS

**Nesrinne SEDDIKI, Djamel ALIOUCHE
and Imene BOUDHENE**

Preparation of nanocomposite hydrogels with nanoclay: characterization, swelling properties and dye adsorption behavior



Methylene blue (MB)

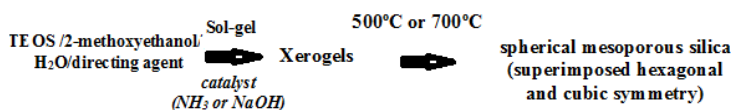
Basic red 46 (BR)

DOI: 10.33224/rch.2020.65.2.01
Rev. Roum. Chim., 2020, 65(2), 119-133

Key words: hydrogel nanocomposite, polyacrylamide, Laponite clay, adsorption, cationic dye.

**Ana-Maria PUTZ, Jiri PLOCEK,
Petr BEZDICKA and Cecilia SAVII**

Small-angle X-ray powder diffraction analyses, microstructure and morphology of some synthesized template silica samples related to the 2-methoxyethanol content

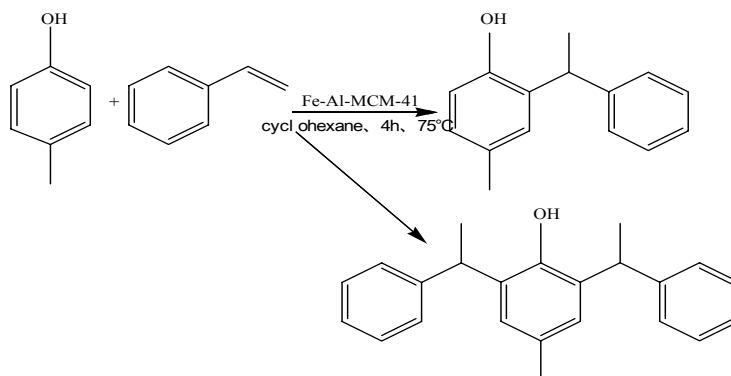


DOI: 10.33224/rch.2020.65.2.02
Rev. Roum. Chim., 2020, 65(2), 135-140

Key words: mesoporous silica, X-ray powder diffraction, MCM-41, MCM-48.

**Zhenhua FENG, Lianying AN,
Zhenggen HUANG, Xianyin ZHAO
and Bengao WANG**

Catalytic synthesis of 4-methyl-2-(α -methyl benzyl) phenol over Fe-Al-MCM-41 for extraction-separation rubidium from brine

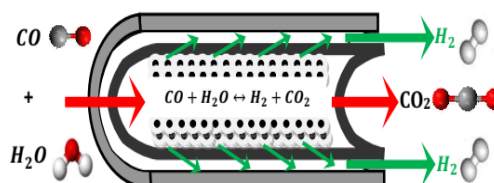


DOI: 10.33224/rch.2020.65.2.03
Rev. Roum. Chim., 2020, 65(2), 141-147

Key words: Fe-Al-MCM-41, 4-methyl-2-(α -methyl benzyl) phenol, rubidium, extraction.

Imed EDDI and Lemnouer CHIBANE

Parametric study of high temperature water gas shift reaction for hydrogen production in an adiabatic packed bed membrane reactor

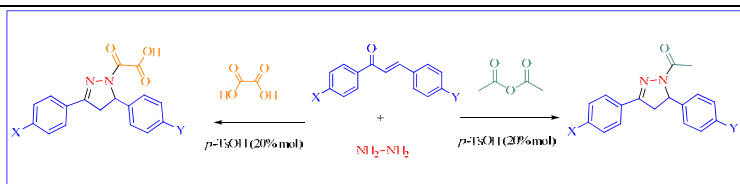


DOI: 10.33224/rch.2020.65.2.04
Rev. Roum. Chim., 2020, 65(2), 149-164

Key words: hydrogen production, HT-water gas shift, adiabatic reactor, Pd-Ag membrane, pure hydrogen.

Hadis KHODADAD, Khalil POURSHAMSIAN, Farhad HATAMJAFARI and Babak SADEGHI

Synthesis of some new *N*-acetylated pyrazoline derivatives *via* the efficient one-pot reaction by using *p*-toluenesulfonic acid

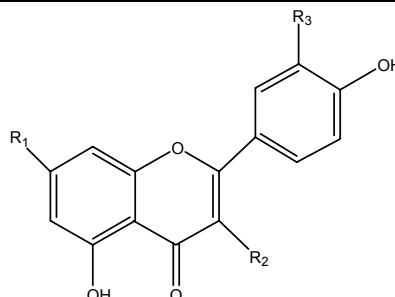


DOI: 10.33224/rch.2020.65.2.05
Rev. Roum. Chim., 2020, 65(2), 165-171

Key words: pyrazoline derivatives, one-pot reaction, FT-IR, NMR spectral data, elemental analysis, *p*-toluenesulfonic acid.

Marwa BEN HMED, Ghayth RIGANE, Ridha BEN SALEM, Nacim ZOUARI and Slim CHERIF

Phytochemical and antioxidant activities of *Schinus molle* L. extract

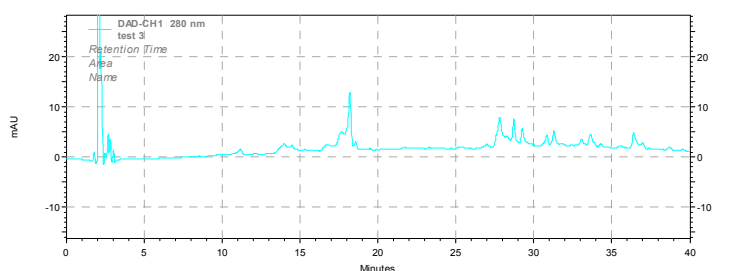


DOI: 10.33224/rch.2020.65.2.06
Rev. Roum. Chim., 2020, 65(2), 173-178

Key words: *Schinus molle* L., root, phenolic compounds, flavonoid, Rutin.

Moemen CHIRA, Ghayth RIGANE, Carole CALAS-BLANCHARD, Régis ROUILLON and Ridha BEN SALEM

Phenolic, tocopherols and squalene profiles (HPLC-UV) of *Chemlali*-Sfax olive oil according to extraction procedure

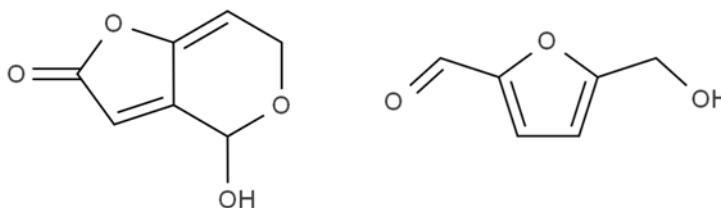


DOI: 10.33224/rch.2020.65.2.07
Rev. Roum. Chim., 2020, 65(2), 179-190

Key words: microwave treatment, olive oil, fast preheating, sodium citrate, total phenols.

Emrah DURAL

Monitorization of patulin and hydroxymethylfurfural in fruit juice and commercial fruity baby foods by an HPLC-DAD method

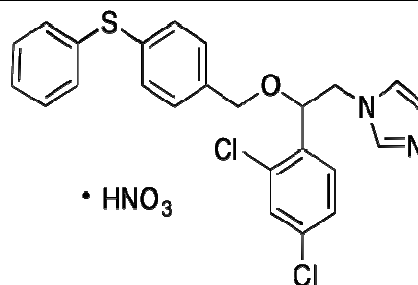


DOI: 10.33224/rch.2020.65.2.08
Rev. Roum. Chim., 2020, 65(2), 191-200

Key words: patulin, hydroxymethylfurfural, apple based-fruit juice, fruity baby food, HPLC-DAD.

Cem ÖNAL, Emrullah BINAY and Armağan ÖNAL

Development and validation of a stability-indicating ultra-fast liquid chromatographic analysis for the simultaneous determination of fenticonazole and its related substances in pharmaceutical formulations

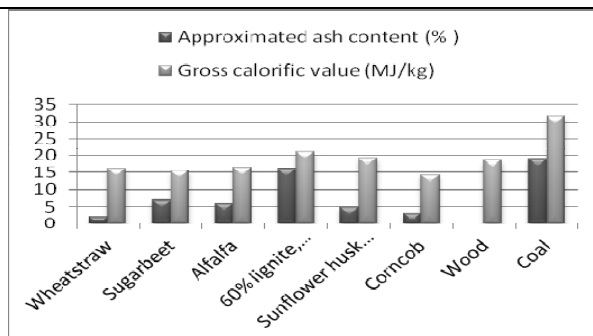


DOI: 10.33224/rch.2020.65.2.09
Rev. Roum. Chim., 2020, 65(2), 201-209

Key words: fenticonazole, ultra-fast liquid chromatography, stability-indicating, validation, quality control analysis.

**Ioana Maria MOISE, Viorica MELTZER
and Elena PINCU**

A study on pellets as an alternative source of energy for fossil fuel using adiabatic combustion calorimetry



DOI: 10.33224/rrch.2020.65.2.10
Rev. Roum. Chim., 2020, 65(2), 211-215

Key words: biomass pellets, fossil fuel, combustion calorimetry.

