

REVUE ROUMAINE DE CHIMIE (ROMANIAN JOURNAL OF CHEMISTRY)

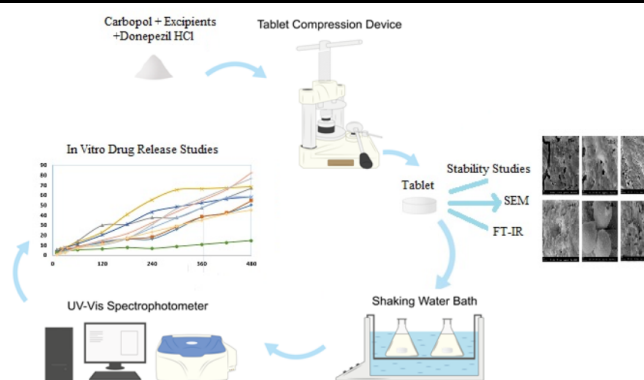
Tome 67, N^{os} 10–12

Octobre–Décembre 2022

PAPERS

Sebnem SENOL and Emel AKYOL

In-vitro evaluation of co-excipients for release of donepezil hydrochloride from Carbopol 974P based tablets

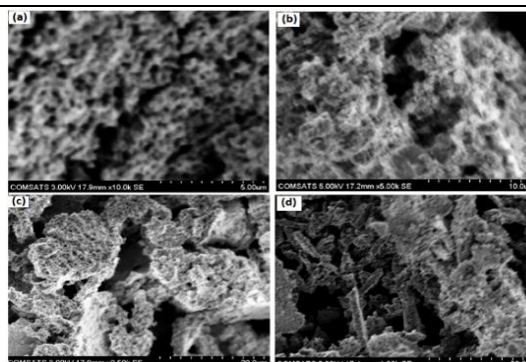


DOI: 10.33224/rch.2022.67.10-12.01
Rev. Roum. Chim., 2022, 67(10–12), 515–523

Key words: Carbopol 974P based tablets, *in-vitro* release behavior, donepezil HCl, drug release kinetics, gelatin.

**M. Mazhar Abbas SHAHANI,
Farzana AHMAD, Muhammad JAMIL and
Musa Kaleem BALOCH**

An investigation into synthesis and characterization of Ag-nanoparticles using green chemistry, and their antibacterial properties

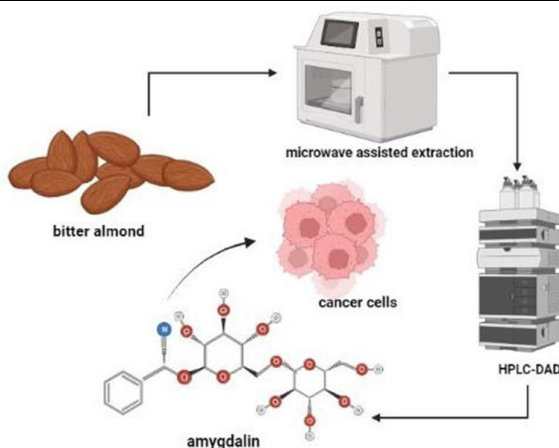


DOI: 10.33224/rch.2022.67.10-12.02
Rev. Roum. Chim., 2022, 67(10–12), 525–534

Key words: silver nanoparticles (Ag-NPs), rose leaves, plant extract, green chemistry, antibacterial, spread plate method.

**Busra Nagihan OZTURK,
Serap AYAZ SEYHAN and
Dilek BILGIC ALKAYA**

Determination of amygdalin in fifteen different fruit kernels and extraction optimization

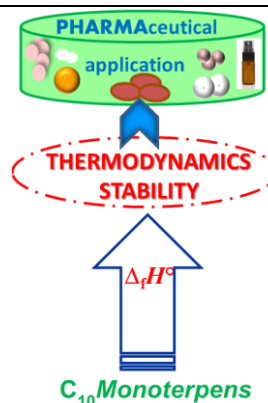


DOI: 10.33224/rch.2022.67.10-12.03
Rev. Roum. Chim., 2022, 67(10–12), 535–547

Key words: amygdalin, HPLC, extraction, fruit, kernel.

Daniela GHEORGHE, Ana NEACSU,
Ancuta Mihaela SOFRONIA and
Stefan PERISANU

Thermodynamic properties of some monoterpenes
with pharmacological applications

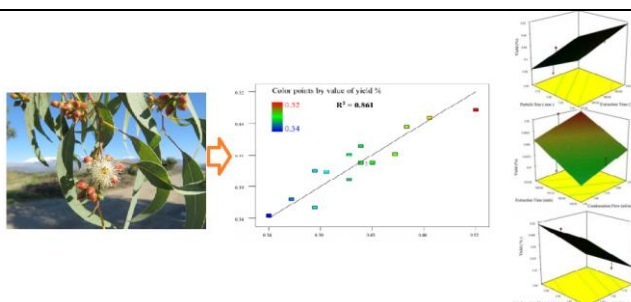


DOI: 10.33224/rch.2022.67.10-12.04
Rev. Roum. Chim., 2022, 67(10–12), 549–558

Key words: antimicrobial agents, enthalpy of combustion and formation,
phenolic terpenes, TG/DSC.

Abdenabi ABIDI, Mohamed DJERMANE,
Mostepha IEZID, Nouredine GHERRAF and
Maxime PONTIE

Eco-extraction process of essential oil of the vegetal species
Eucalyptus Camaldulensis Dehnh.: parametric modeling
and optimization by Box-Behnken plan

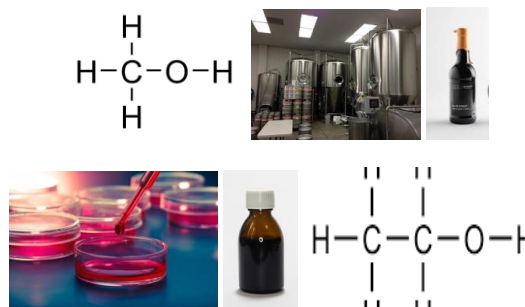


DOI: 10.33224/rch.2022.67.10-12.05
Rev. Roum. Chim., 2022, 67(10–12), 559–568

Key words: *Eucalyptus camaldulensis*, essential oil, hydrodistillation,
response surface, Box-Behnken.

Onur Kenan ULUTAŞ and Aysel BERKKAN

A new direct extraction by gas-chromatography
with flame ionization detector coupled to head
space method for the determination of alcohol
content of high matrix wine products

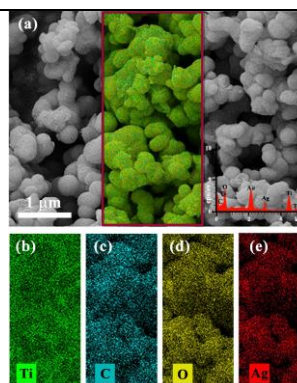


DOI: 10.33224/rch.2022.67.10-12.06
Rev. Roum. Chim., 2022, 67(10–12), 569–577

Key words: HS-GC-FID, alcohol content, analytical performance and
validation fermented products, high matrix.

Fatemeh Samandi ZADEH,
Mohammad Kazem MOHAMMADI,
Ayehe RAYATZADEH and
Neda HASANZADEH

Synthesis and cytotoxic activity evaluation
of 1,4-dihydropyridine derivatives using
 $\text{Ag}_2\text{O}/\text{GO}/\text{TiO}_2$ composite nanostructure



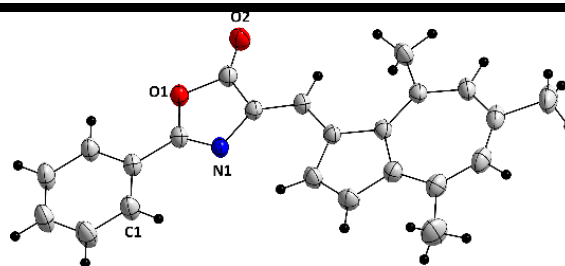
DOI: 10.33224/rch.2022.67.10-12.07
Rev. Roum. Chim., 2022, 67(10–12), 579–589

Key words: 1,4 dihydropyridine, solvent free, $\text{Ag}_2\text{O}/\text{GO}/\text{TiO}_2$, nano
composite, cytotoxic.

NOTE

**Mihai RĂDUCĂ, Ciprian I. RAȚ and
Mihaela CRISTEA**

Crystal structure and Hirshfeld surface analysis
of (*Z*)-2-phenyl-4-((4,6,8-trimethylazulen-1-
yl)methylene)oxazol-5(*4H*)-one



Key words: 1-vinylazulenes, Wittig reaction, Knoevenagel condensation, Erlenmeyer-Plöchl reaction, modified electrodes, heavy metal ions recognition.

DOI: 10.33224/rch.2022.67.10-12.08
Rev. Roum. Chim., **2022**, 67(10–12), 591–596

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Rev. Roum. Chim., **2022**, 67(10–12), 597–603

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Rev. Roum. Chim., **2022**, 67(10–12), 605–607
