

**PÉCSI TUDOMÁNYEGYETEM
ÁLTALÁNOS ORVOSTUDOMÁNYI KAR
GYÓGYSZERÉSZTUDOMÁNYI SZAK
FARMAKOGNÓZIAI TANSZÉK**

GYÓGYNÖVÉNYEK HATÓANYAGAI ÉS SZERKEZETI KÉPLETEI

Egyetemi jegyzet gyógyszerészhallgatók részére



Dr. Papp Nóra PhD
egyetemi adjunktus

Pécs
2011

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Lektorálta: Prof. Dr. Molnár Péter

Bevezetés

A növények speciális metabolizmusuk, másodlagos anyagcseréjük során számos vegyületet, vegyületcsoportot tartalmaznak. Bizonyos komponensek gyógyászati jelentősége tudományos (pl. mikrobiológiai, farmakológiai) bizonyítást nyert, így ezeket a vegyületeket **hatóanyagoknak** nevezzük. Egy-egy növény család, nemzetség vagy gyógynövényfaj sajátos, egyedi hatóanyagspektrumot mutathat, így jelenlétük **kemotaxonómiai szereppel** bír.

Gyógyászati alkalmazásuk mellett jelentős feladatot látnak el többek között a növények ellenállóképességének fokozásában (stresszfaktorok), az egyes taxonok környezeti tényezőkhöz való adaptációjában, de felelősek lehetnek az egyes növényi részek (pl. virág, termés, mag) színéért, illatáért, így a megporzásért is.

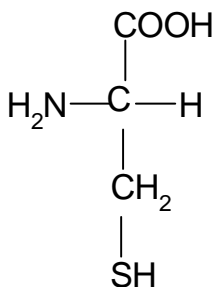
Jelen összeállításunk közel sem teljes, válogatást nyújt a gyógynövények széles hatóanyagspektrumából, mely a Pécsi Tudományegyetem Gyógyszerésztudományi Szakon oktató **Farmakobotanika** és **Farmakognózia** tantárgyainak kötelező és felismerendő, összesen **325 növényi vegyületének** szerkezeti képleteire támaszkodik. A komponenseket a tanult **145 növényi drog** szerinti csoportosításban mutatjuk be, kiemelve a drogok fő hatóanyagait. A kiadvány végén található **hatóanyagok és drogok szerinti névmutatók** betűrendben segítik a gyors keresést és eligazodást, kiegészítve függelékként a drogok **anyanövényeivel**.

Reméljük, hogy jegyzetünk segítséget nyújt a gyógyszerészhallgatók növénykémiai ismereteihez, a tájékozódáshoz, a számonkérésekre és vizsgákra való felkészüléshez. Kívánjuk, hogy forgassák haszonnal összeállításunkat.

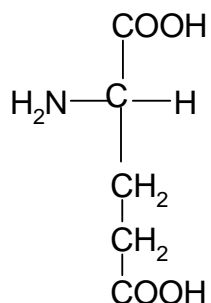
Pécs, 2011. február 10.

Papp Nóra

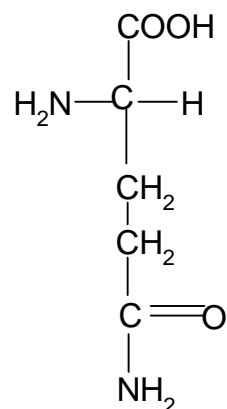
Aminosavak, alkaloid alapvázak



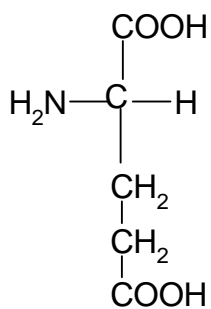
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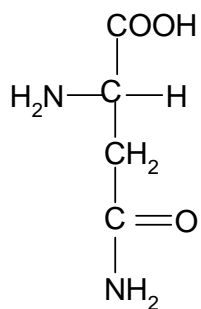
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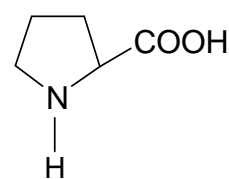
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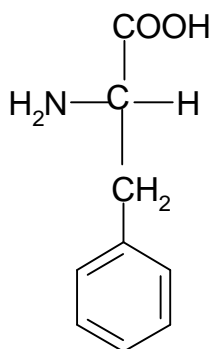
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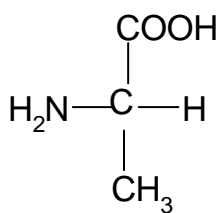
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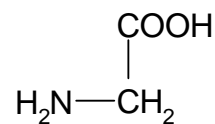
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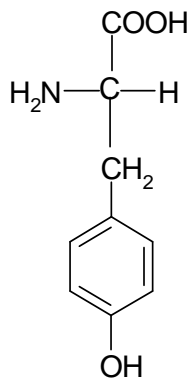
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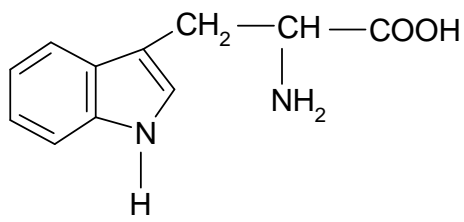
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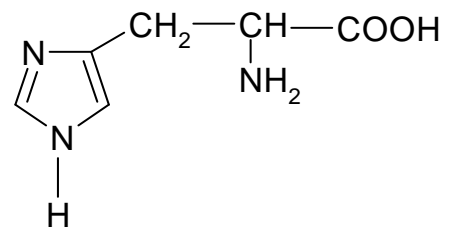
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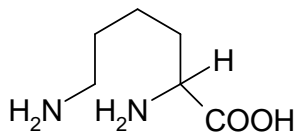
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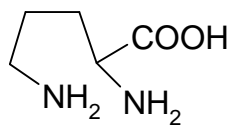
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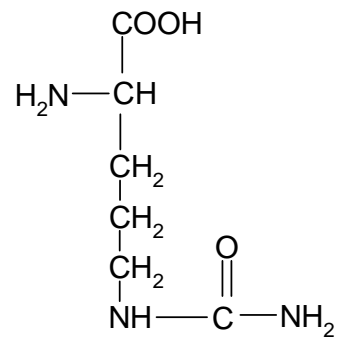
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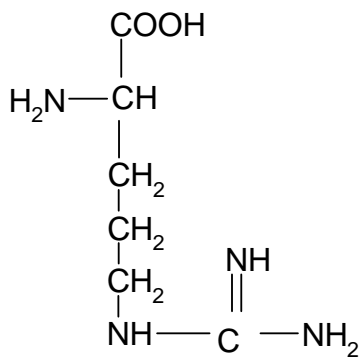
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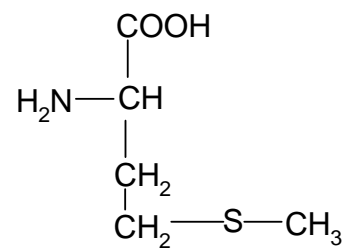
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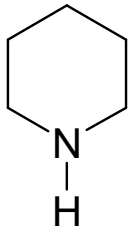
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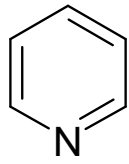
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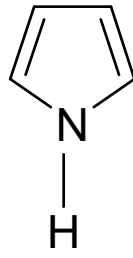
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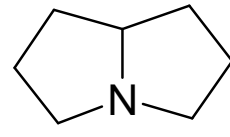
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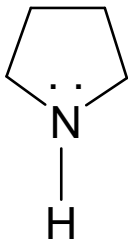
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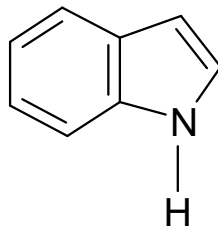
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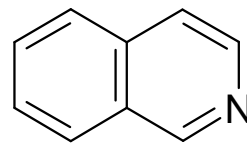
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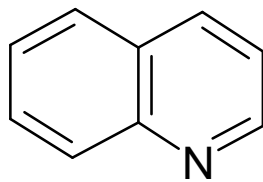
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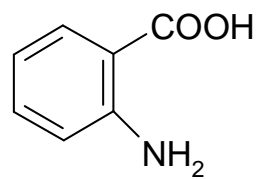
indol



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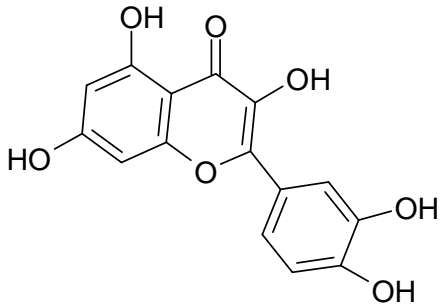


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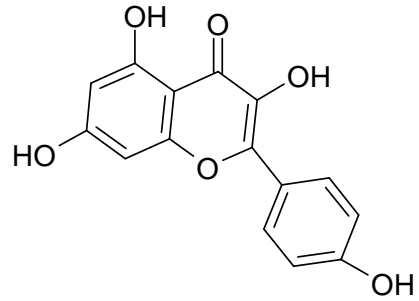


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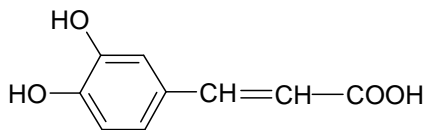
Fenoloidok, fenolok, flavonoidok



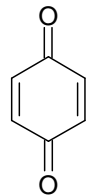
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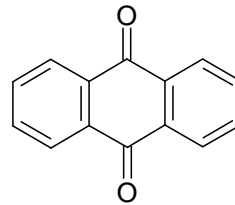
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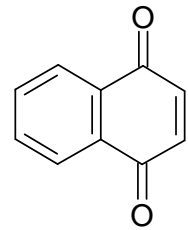
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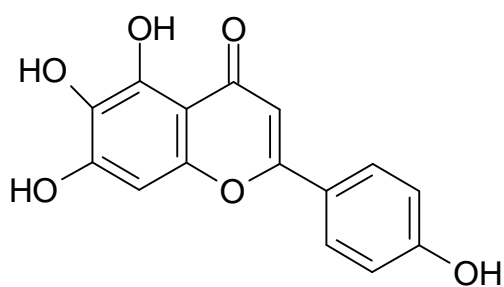


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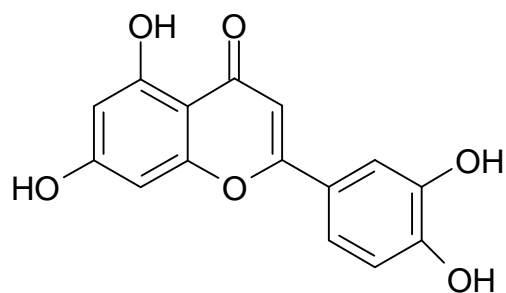


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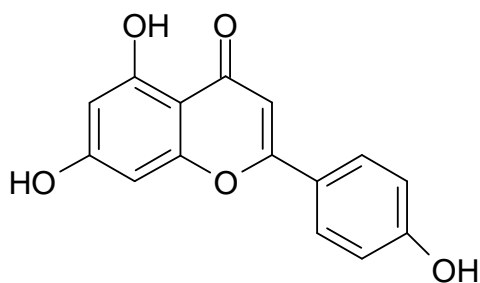
Plantaginis lanceolatae folium – lándzsás útifű levél



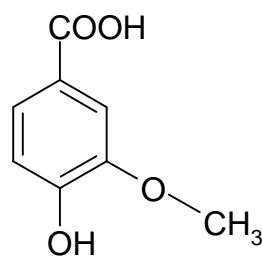
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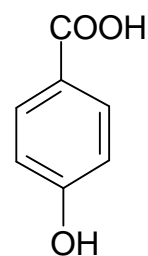
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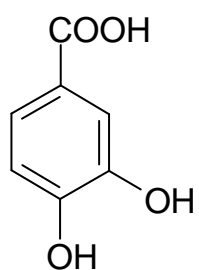
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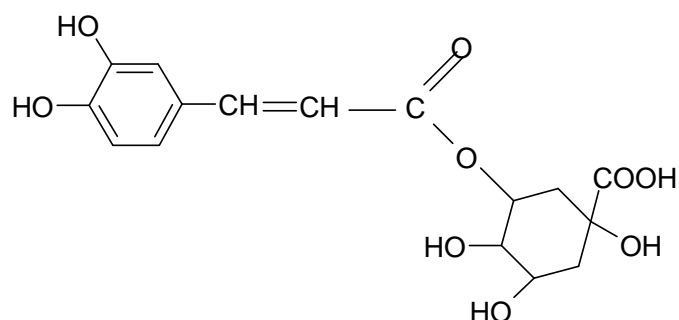
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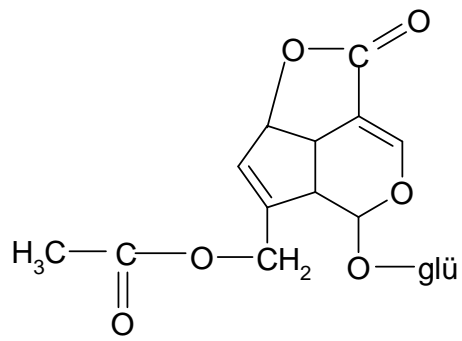
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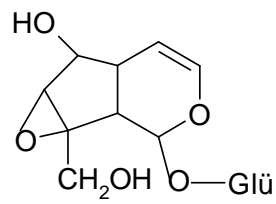
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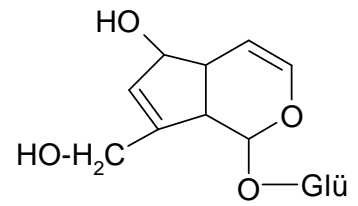
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aszperulozid

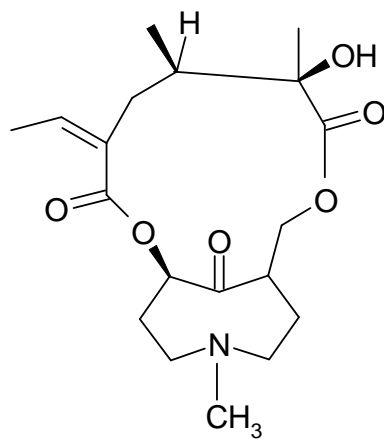


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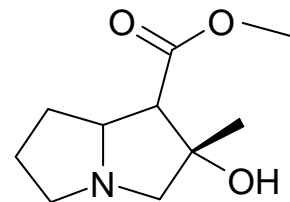


aukubin

Farfarae folium, F. flos – martilapu levél, virág

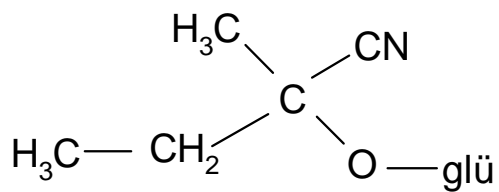


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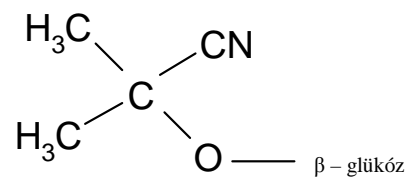


tusszilagin

Lini semen – lenmag

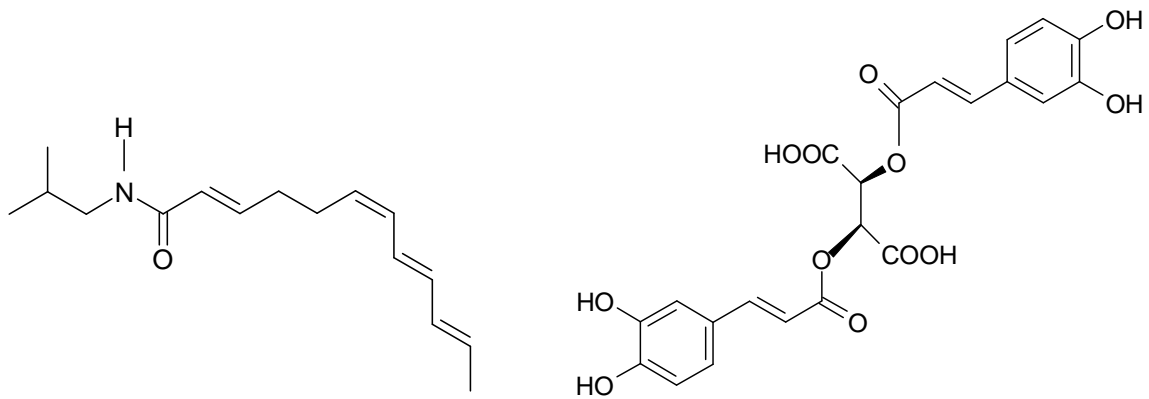


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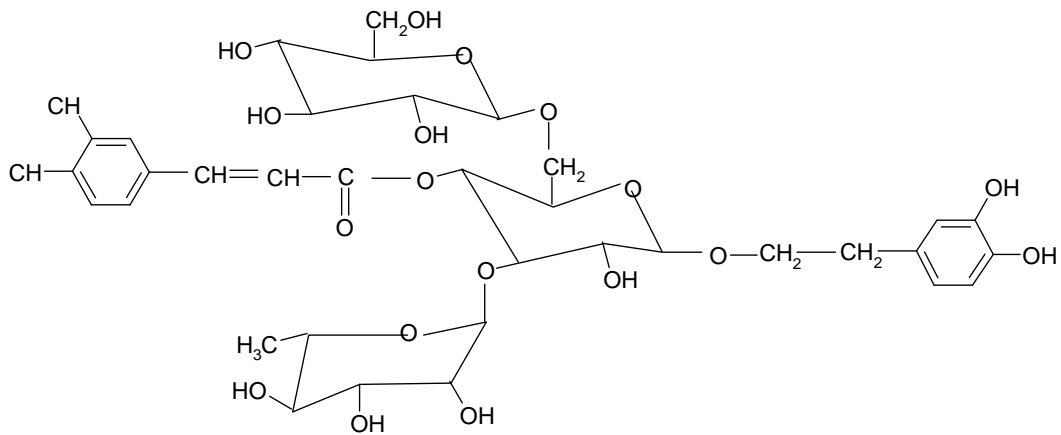
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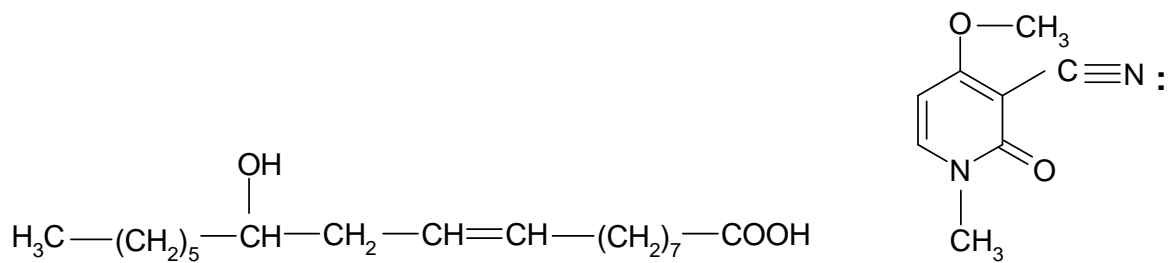
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cikóriasav



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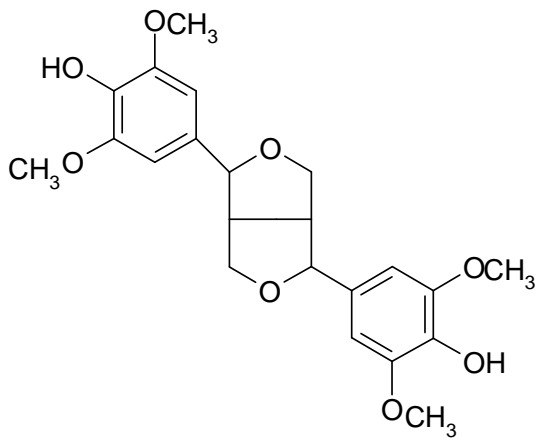
Oleum ricini – ricinusolaj



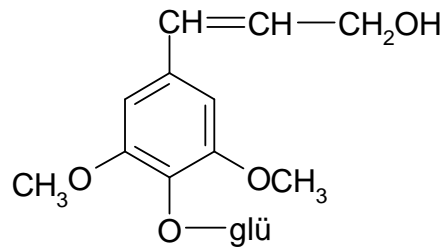
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ricinin

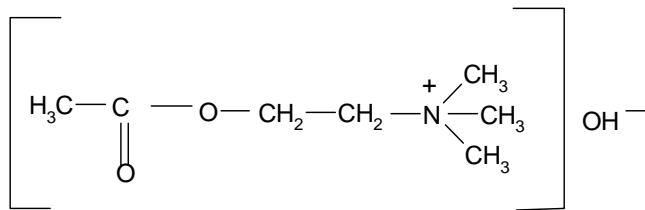
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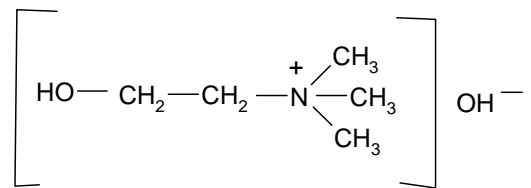
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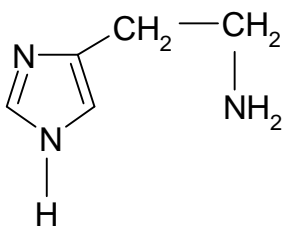
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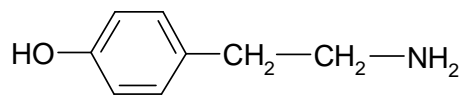
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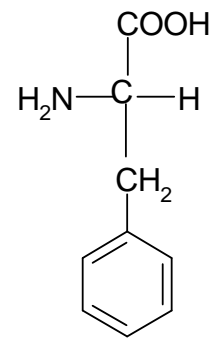
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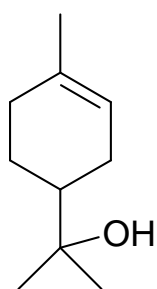


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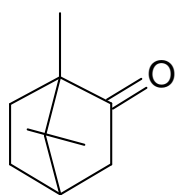


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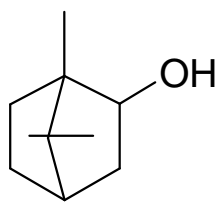
Lavandulae flos – levendula virág



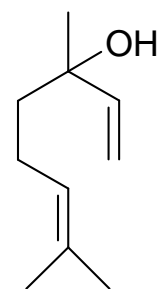
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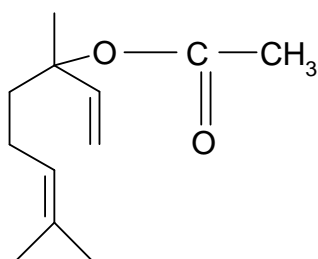
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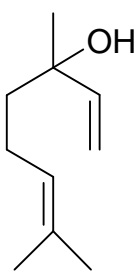


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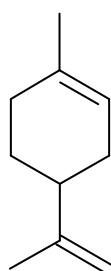


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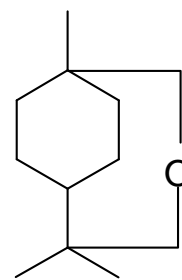
Menthae piperitae folium – borsosmenta levél



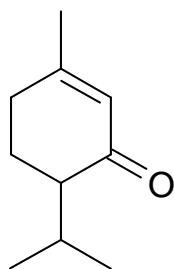
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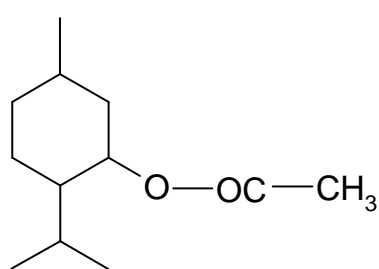
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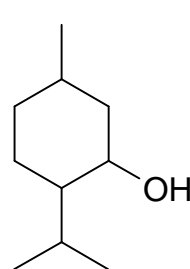
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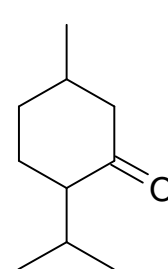
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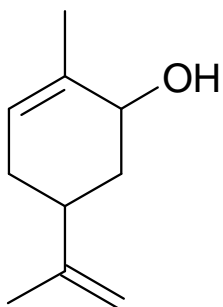


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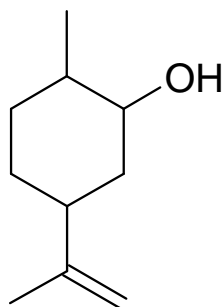


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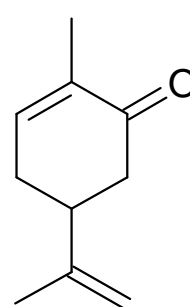
Menthae crispae folium – fodormenta levél



karveol

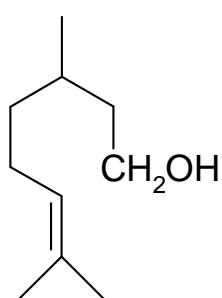


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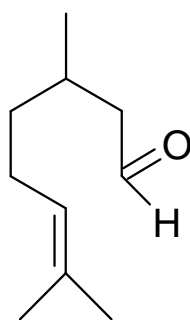


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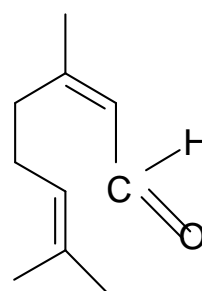
Melissae folium – citromfű levél



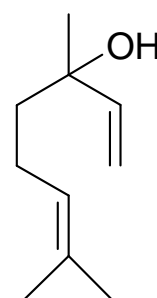
citronellol



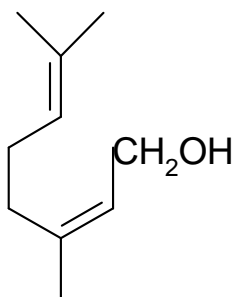
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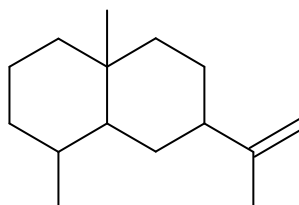
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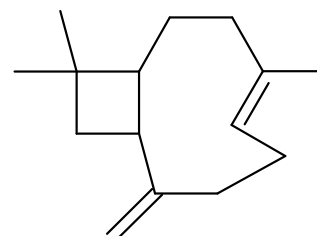
linalool



geraniol

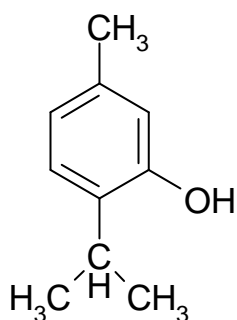


germakrén-D

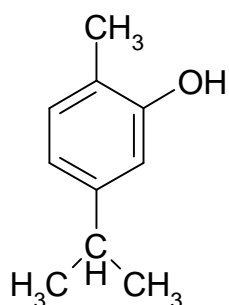


β -kariofillén

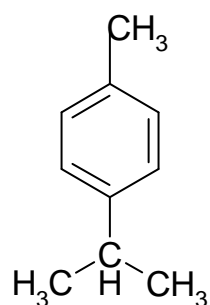
Thymi herba – (kerti) kakukkfű



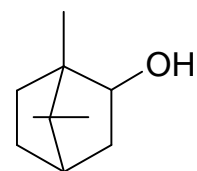
timol



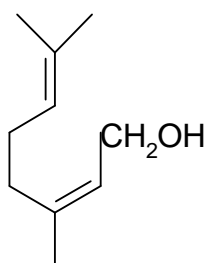
karvakrol



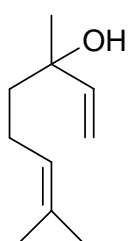
p-cimol



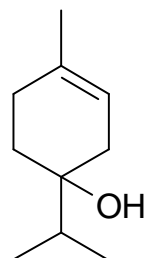
borneol



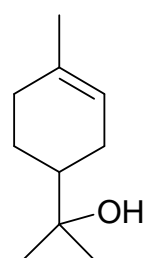
geraniol



linalool

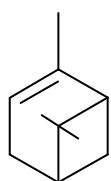


terpinén-4-ol

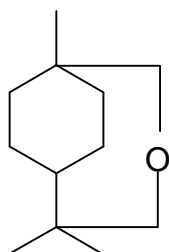


α -terpineol

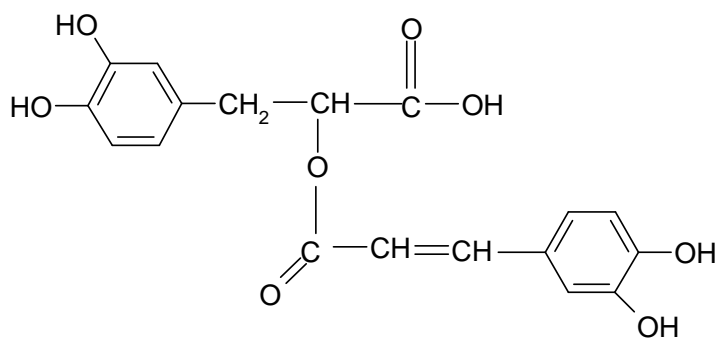
Serpylli herba – mezei kakukkfű



α -pinén

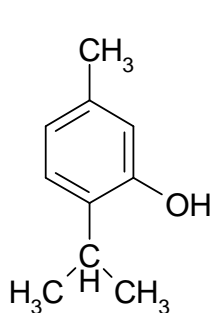


cineol

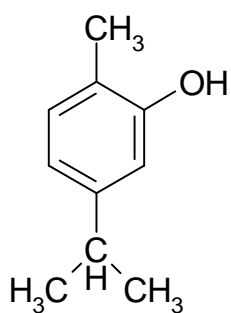


rosmarinsav

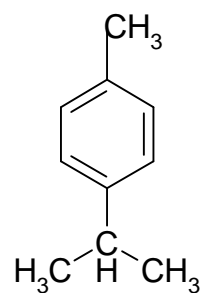
Origani herba – szurokfű



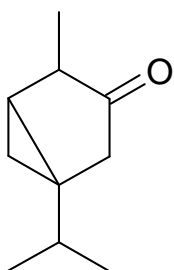
timol



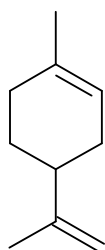
karvakrol



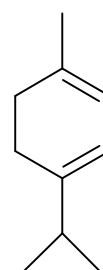
p-cimol



α -tujon

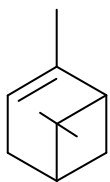


limonén

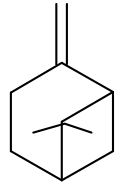


α -terpinén

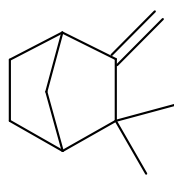
Hyssopi herba – izsóp fű



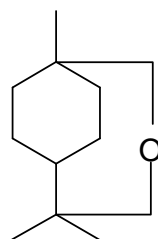
α -pinén



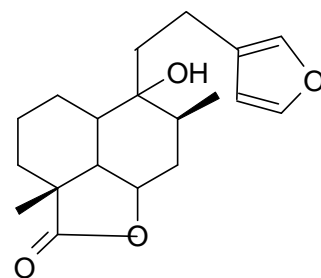
β -pinén



kampfén

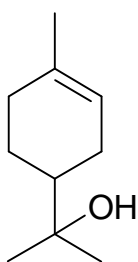


cineol

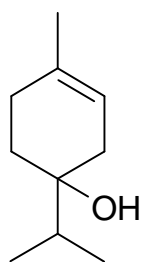


marrubiin

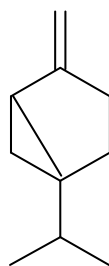
Majoranae herba – majoranna fű



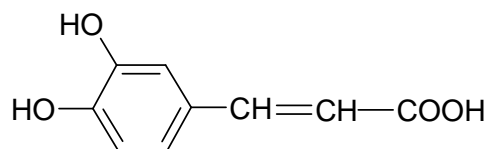
α -terpineol



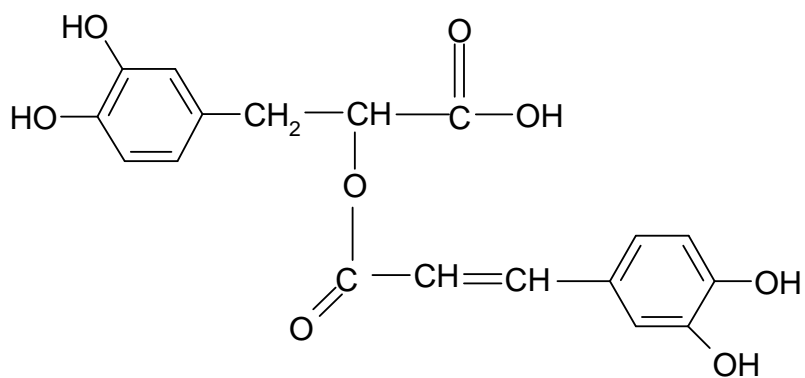
terpinén-4-ol



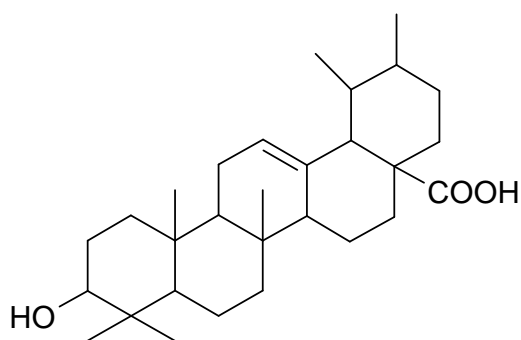
szabinén



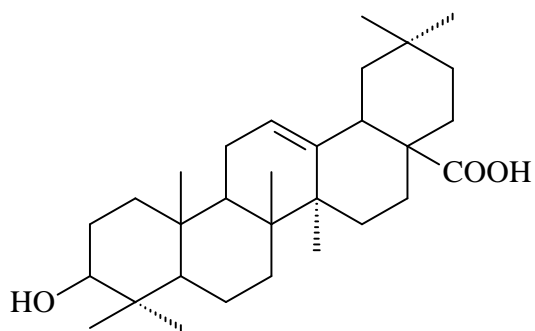
kávésav



rozmarinsav

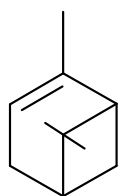


urzolsav

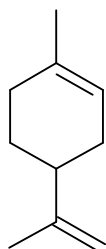


oleanolsav

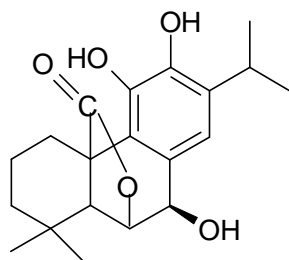
Rosmarini folium – rozmaring levél



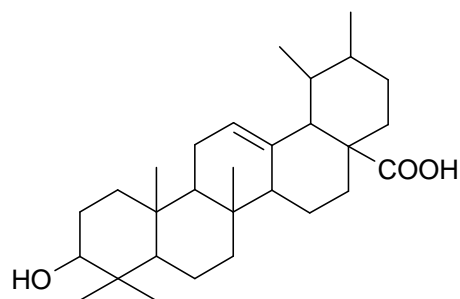
α -pinén



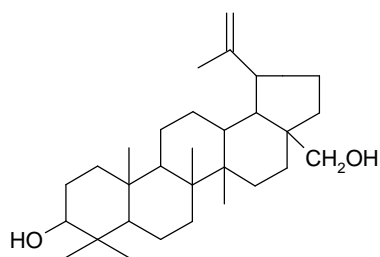
limonén



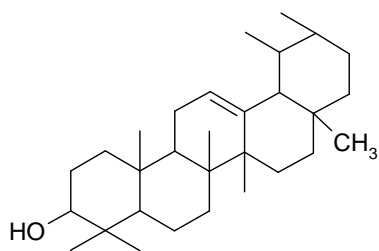
rozmanol



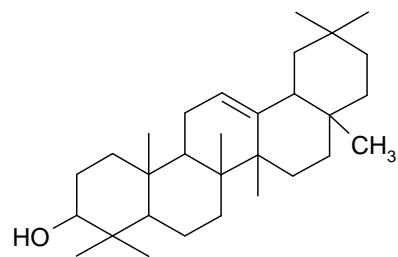
urzolsav



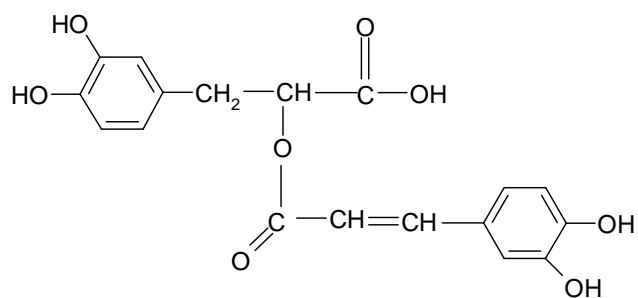
betulin



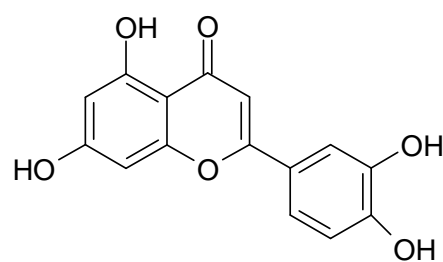
α -amirin



β -amirin

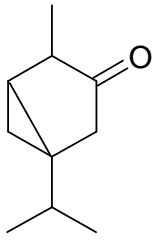


rozmarinsav

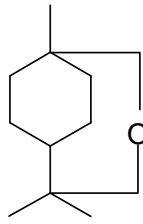


luteolin

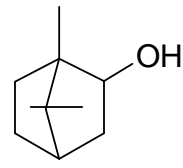
Salviae folium – (orvosi) zsálya levél



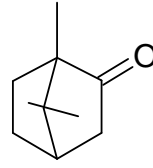
tujon



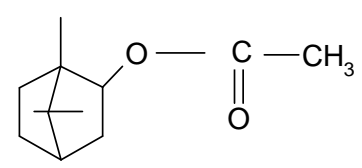
cineol



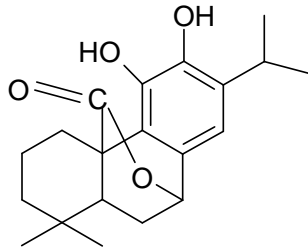
borneol



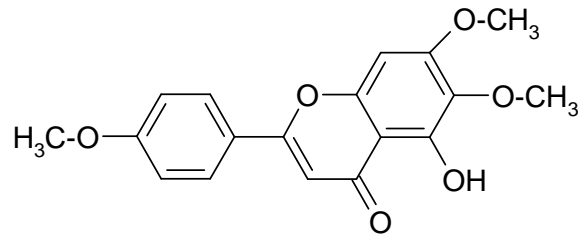
kámfor



bornilacetát

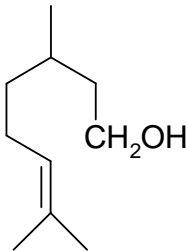


karnosol

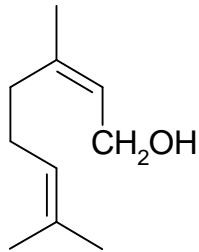


salvigenin

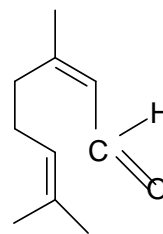
Rosae petalum – (parlagi) rózsa szirom



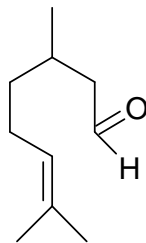
citronellol



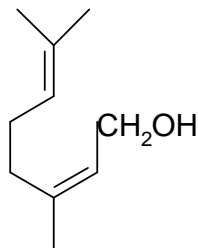
nerol



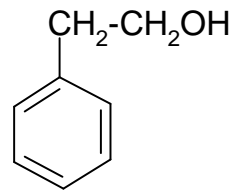
citrál



citronellal

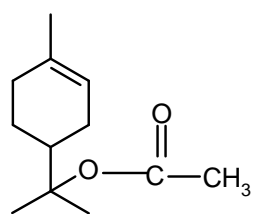


geraniol

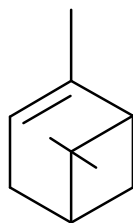


fenetilalkohol

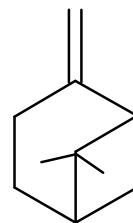
Juniperi fructus – boróka termés



terpenilacetát

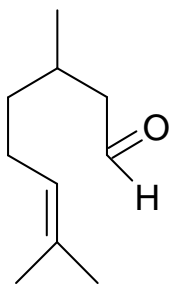


α -pinén

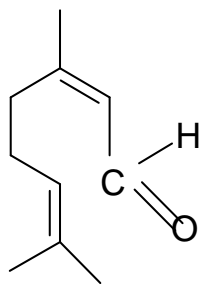


β -pinén

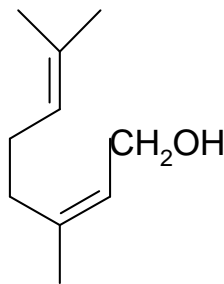
Eucalypti folium – eukaliptusz levél



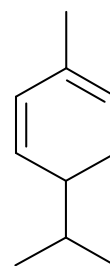
citronellal



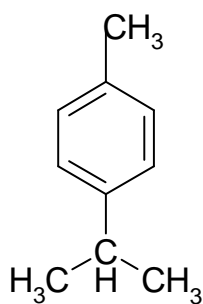
citrál



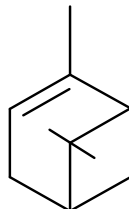
geraniol



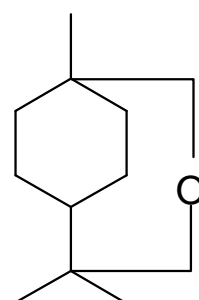
α -fellandré



p-cimol

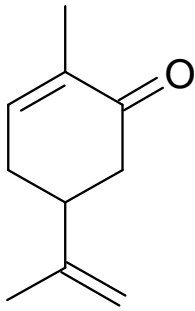


α -pinén

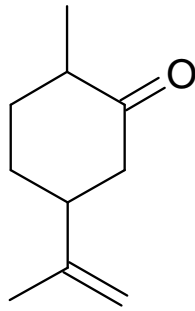


cineol

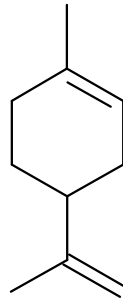
Carvi fructus – (konyha)kömény termés



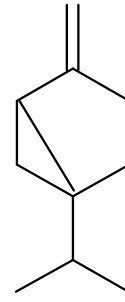
karvon



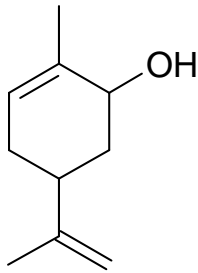
dihidrokarvon



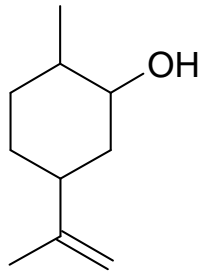
limonén



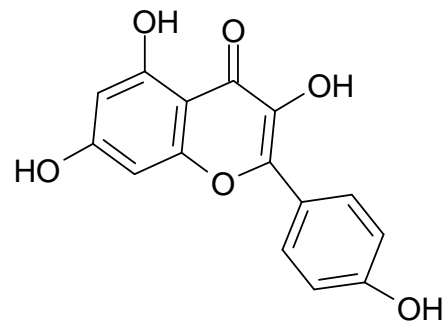
szabinén



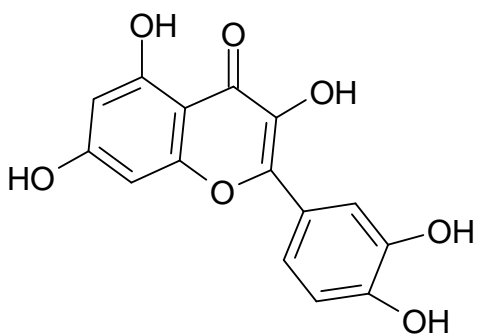
karveol



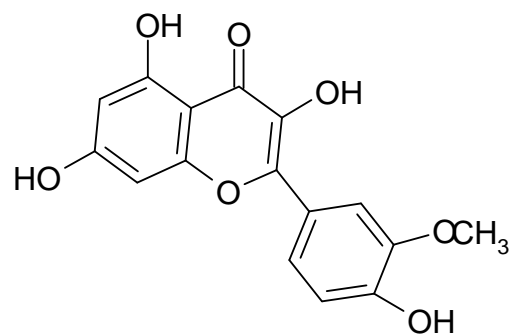
dihidrokarveol



kempferol

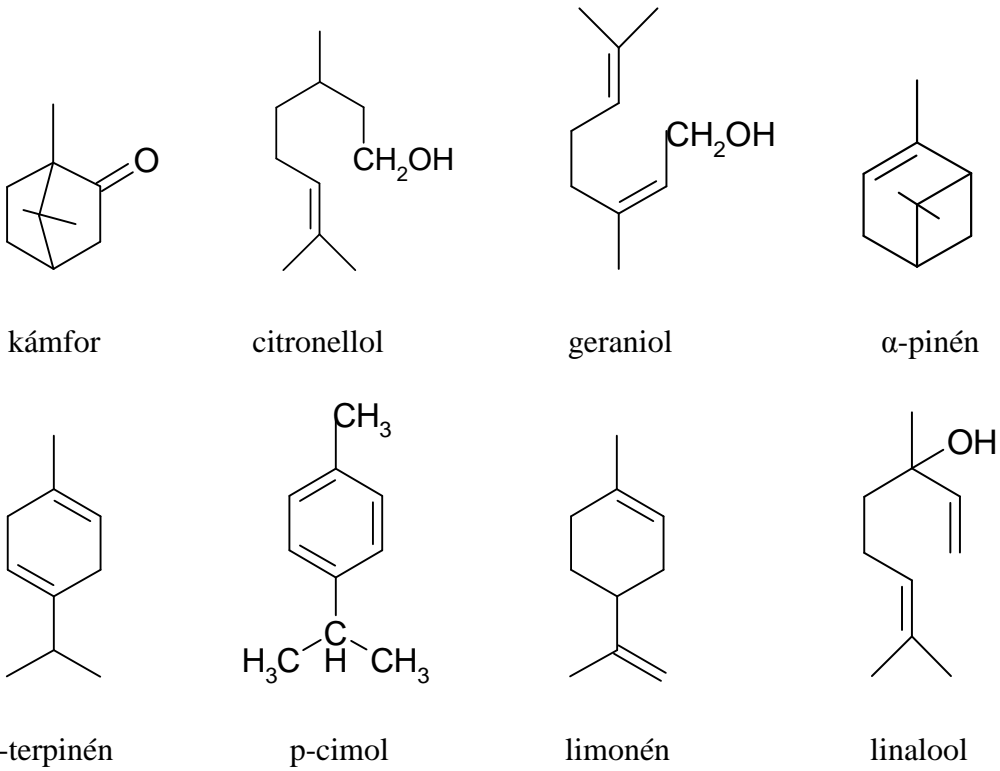


kvercetin

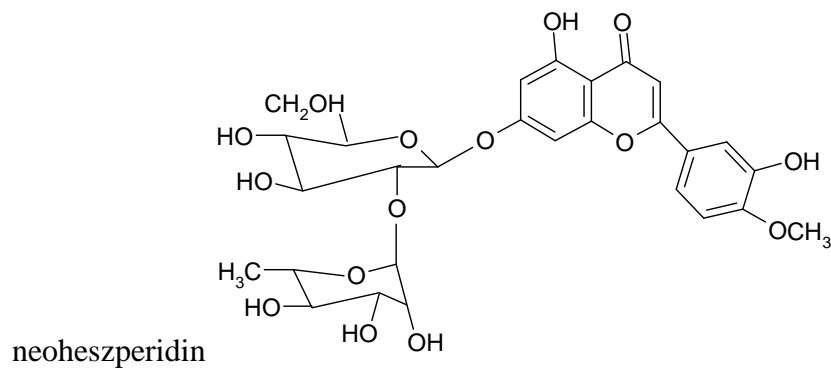
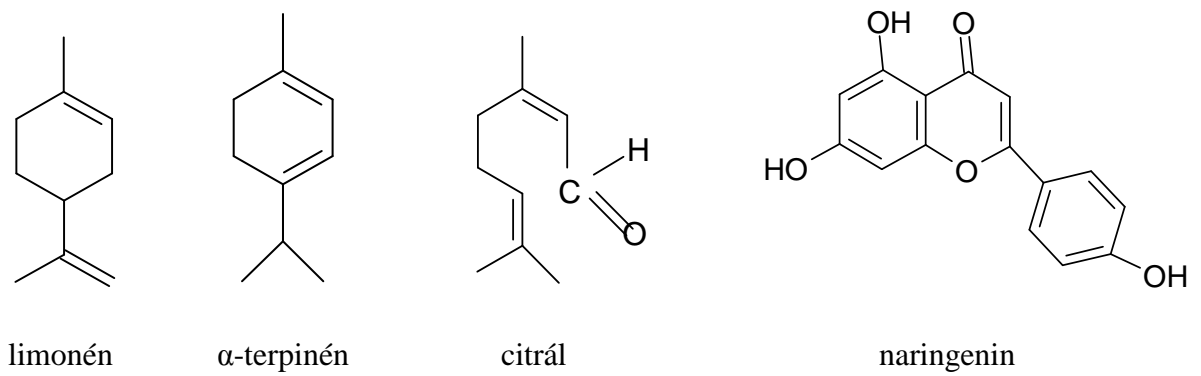


izoramnetin

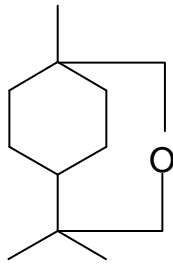
Coriandri fructus – koriander termés



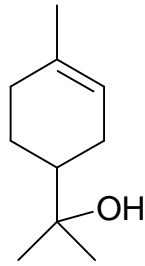
Aurantii epi- et mesocarpium – narancs (külső+középső) termésfal



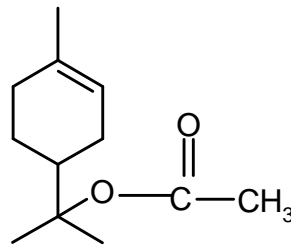
Cardamomi fructus – kardamom termés



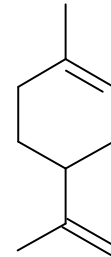
cineol



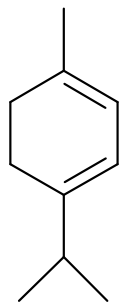
α -terpineol



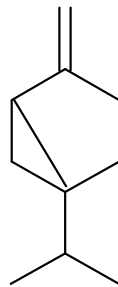
terpenilacetát



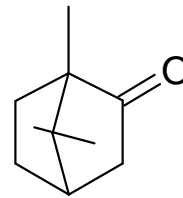
limonén



α -terpinén

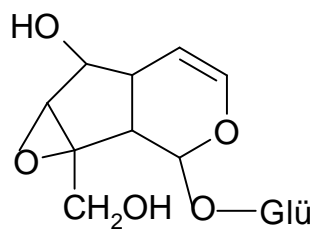


szabinén

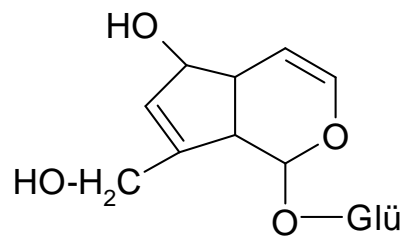


kámfor

Euphrasiae herba – szemvidítófű

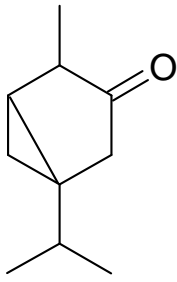


katalpol

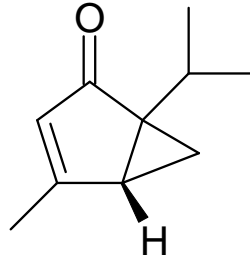


aukubin

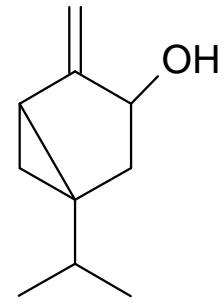
Tanacetii herba – (gilisztaűző) varádicsfű



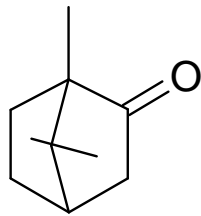
tujon



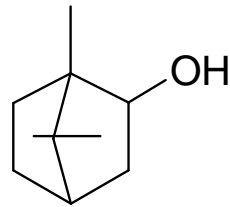
umbellulon



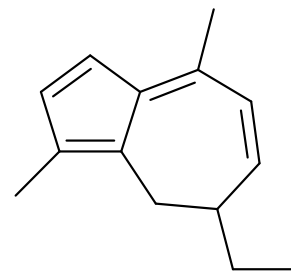
tujilalkohol



kámfor

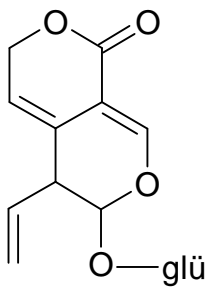


borneol

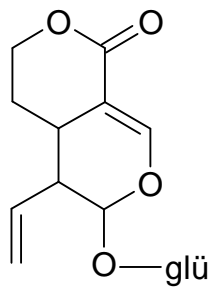


kamazulén

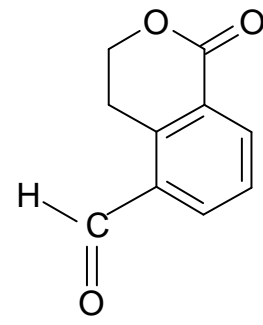
Centaurii herba – ezerjófű



genciopikrin

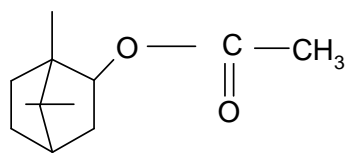


sverozid

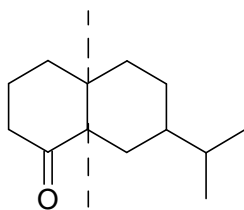


eritrocentaurin

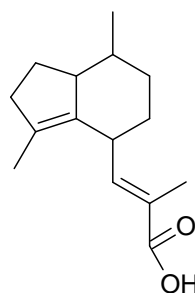
Valerianae radix – macskagyökér



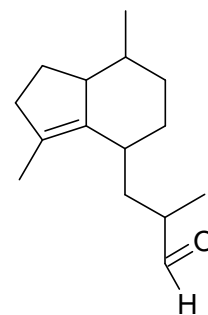
bornilacetát



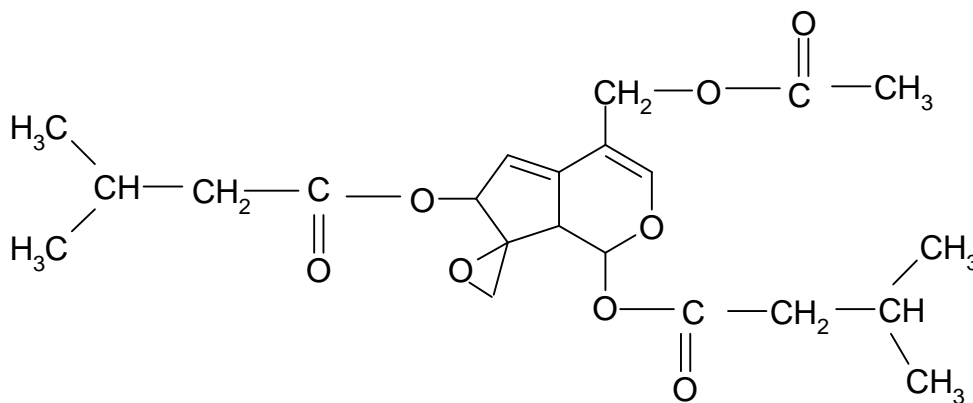
valeranon



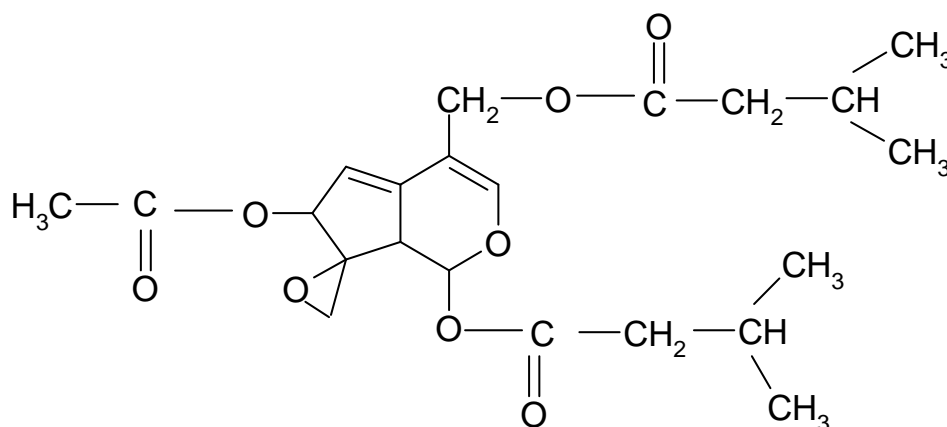
valerénsav



valeranal

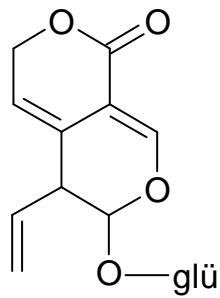


valtrát

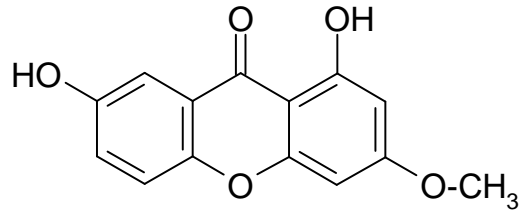


izovaltrát

Gentianae radix – tárnicsgyökér

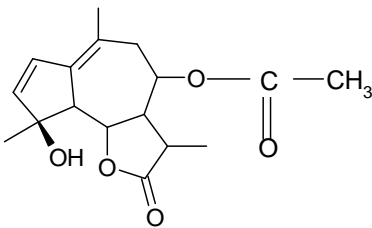


genciopikrin

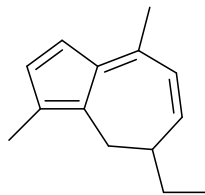


gentizin

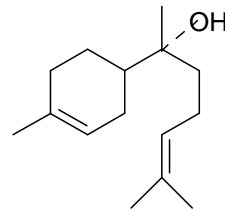
Matricariae flos – kamillavirág



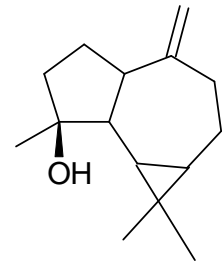
matricin



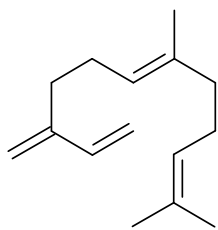
kamazulén



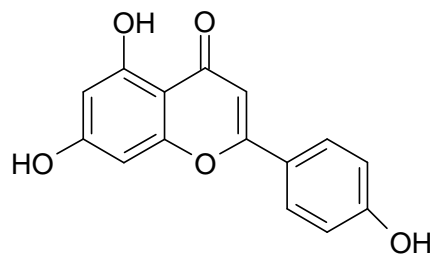
α-bizabolol



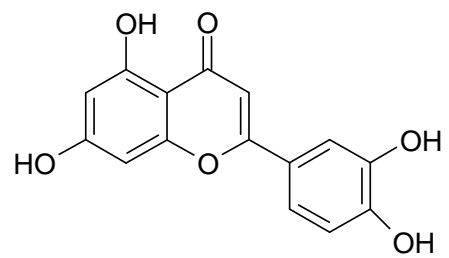
spatulenol



farnezen

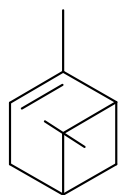


apigenin

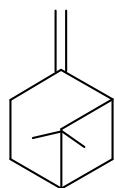


luteolin

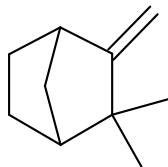
Millefolii herba – cickafarkfű



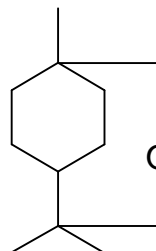
α -pinén



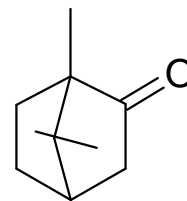
β -pinén



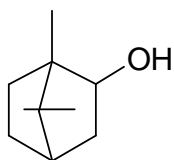
kampfén



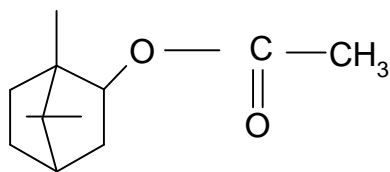
cineol



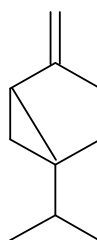
kámfor



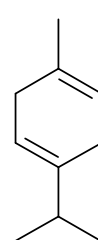
borneol



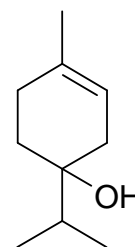
bornilacetát



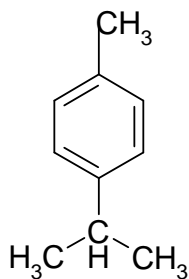
szabinén



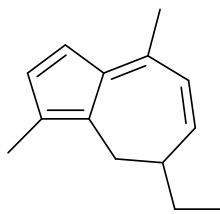
γ -terpinén



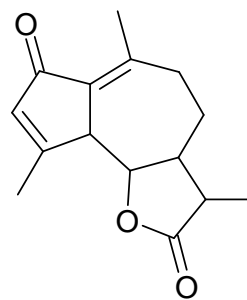
terpinén-4-ol



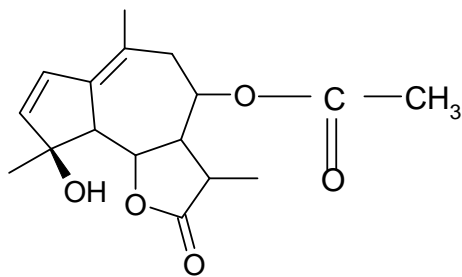
p-cimol



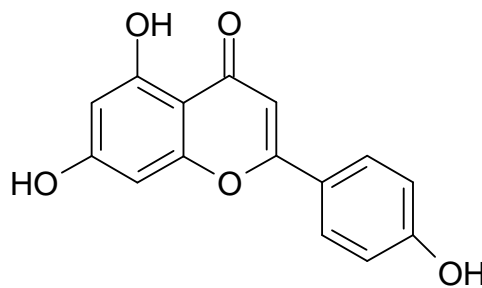
kamazulén



achillin

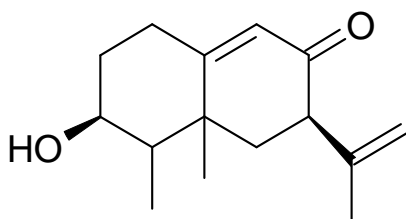


matricin



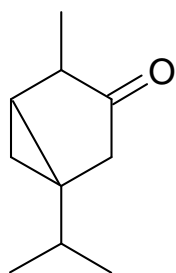
apigenin

Petasitidis folium – acsalapu levél

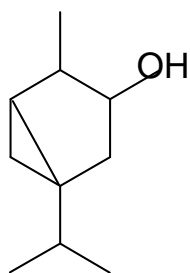


petazol

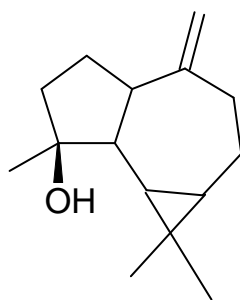
Absinthi herba – fehér ürömfű



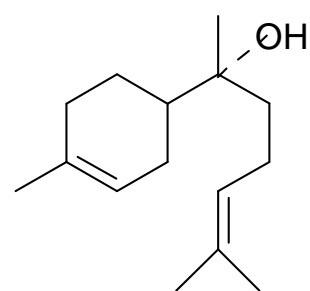
tujon



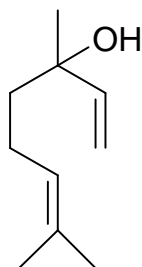
tujol



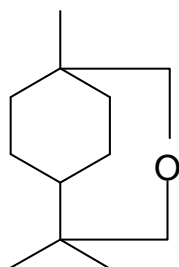
spatulenol



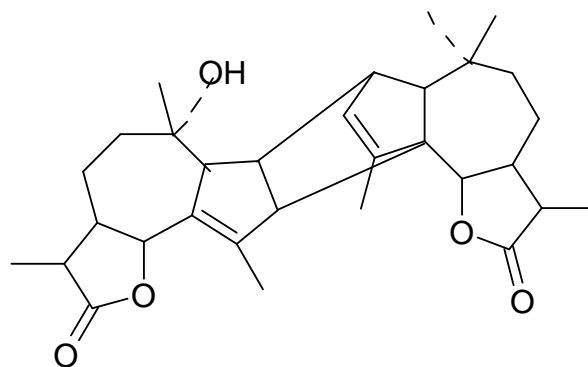
α -bizabolol



linalool

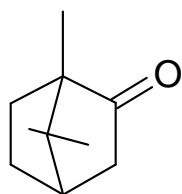


cineol

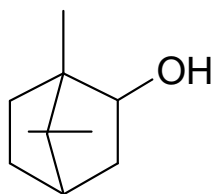


abszintin

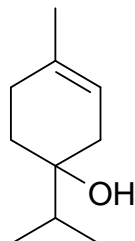
Artemisiae vulgaris herba – fekete ürömfű



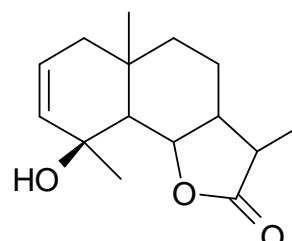
kámfor



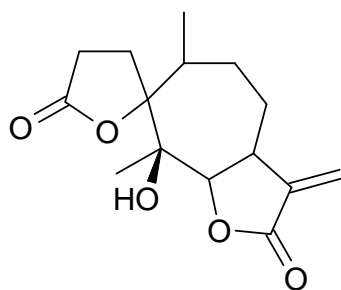
borneol



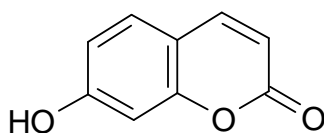
terpinén-4-ol



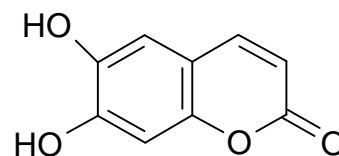
vulgarin



pszilosztachin

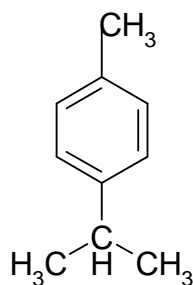


umbelliferon

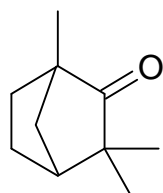


eszskuletin

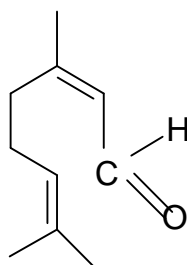
Cardui benedicti herba – benedekfű



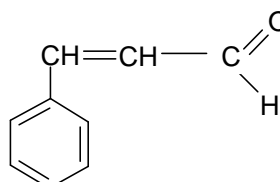
p-cimol



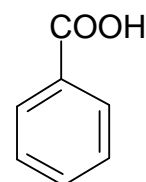
fenchon



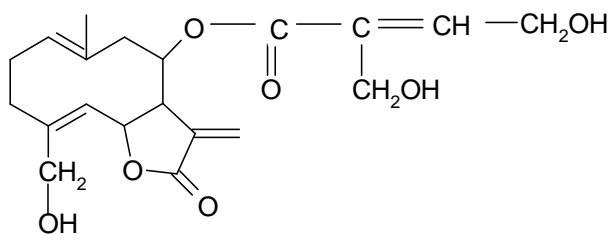
citrál



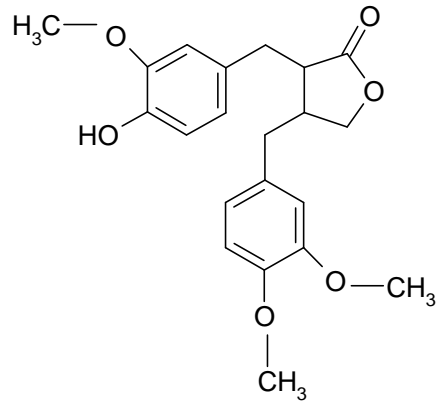
fahéjaldehid



benzoésav

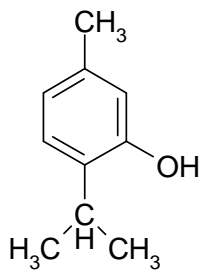


knicin

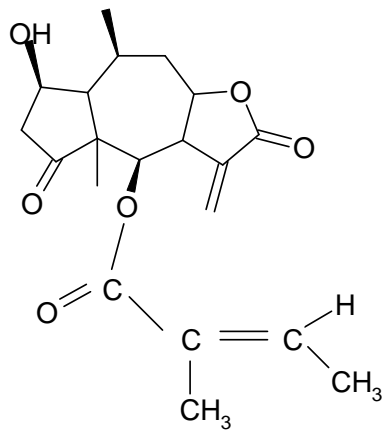


arctigenin

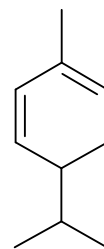
Arnicae flos – árnika virág



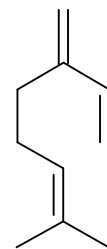
timol



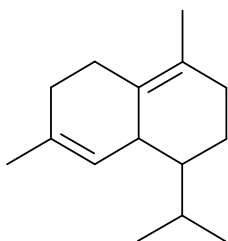
árnifolintiglinát



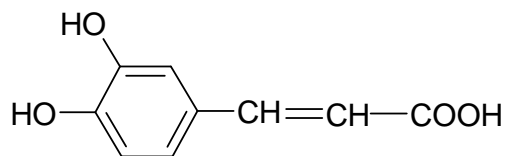
α -fellandren



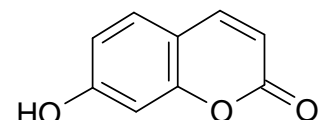
mircen



δ -kadinen

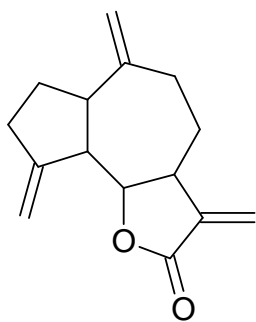


kavesav

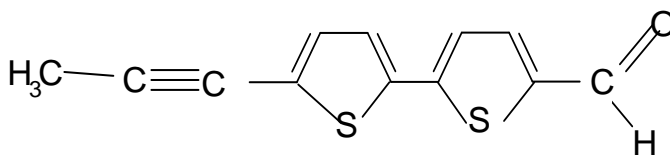


umbelliferon

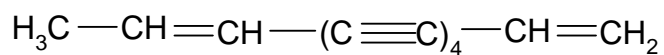
Bardanae radix – bojtorjángyökér



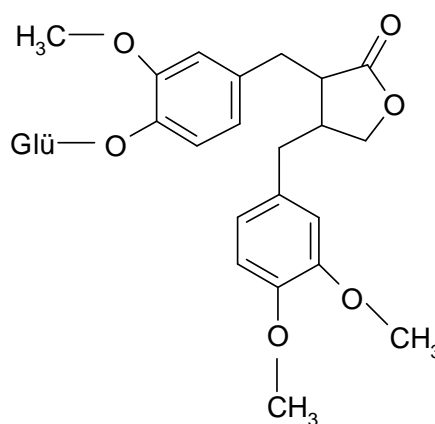
dehidrokozstuszlakton



arctinál

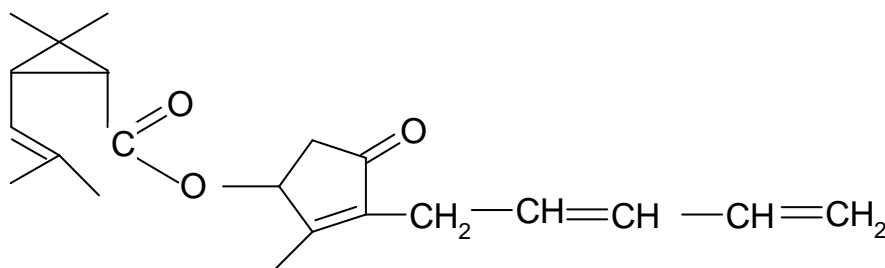


trideka-1,11-dién-3,5,7,9-tetraín



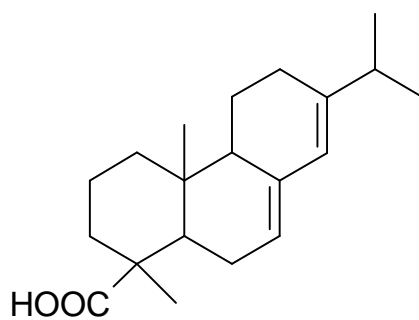
arctiin

Pyrethri flos – rovarporvirág



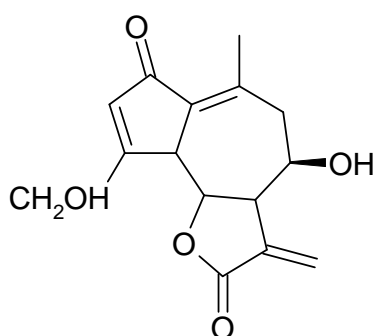
piretrin

Colophonium – hegedűgyanta

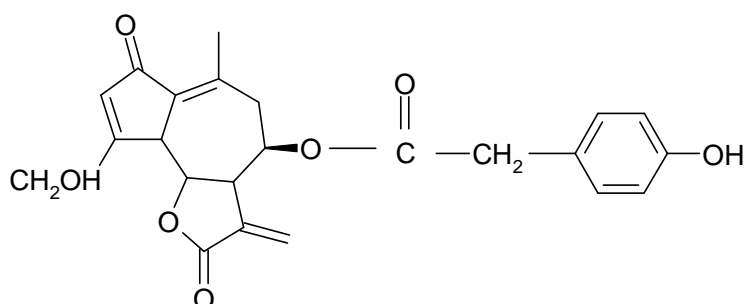


abietinsav

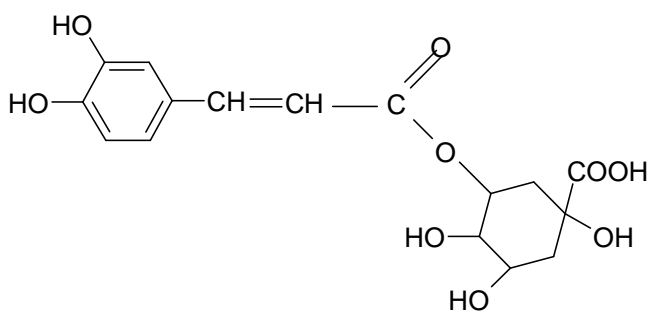
Cichorii radix, C. folium – katánggyökér és -levél



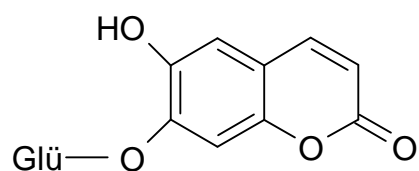
laktucin



laktukopikrin

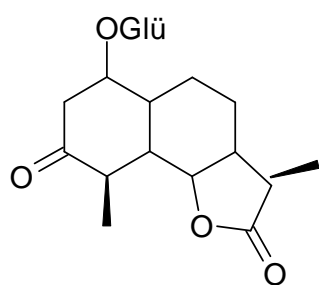


klorogénsav

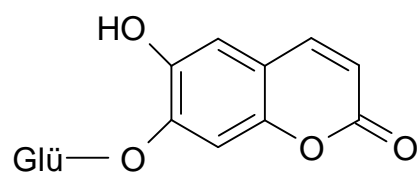


cichoriin

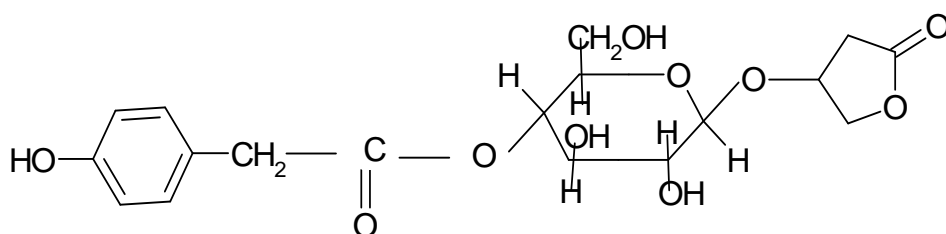
Taraxaci radix, T. herba – pongyola pitypang gyökér és -fű



taraxakolid- β -D-glükozid

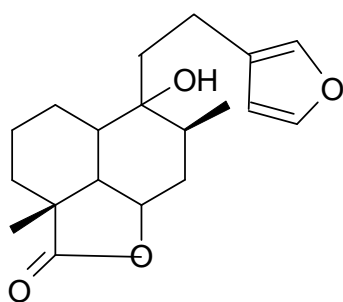


taraxaszterol

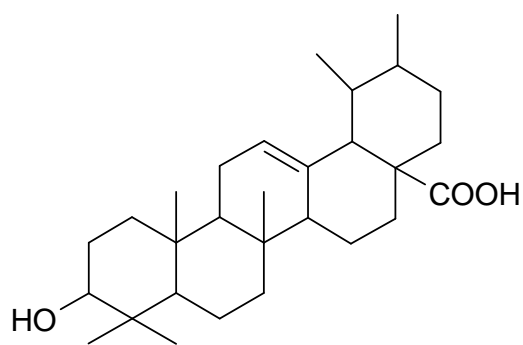


taraxakozid

Marrubii herba – pemetefű

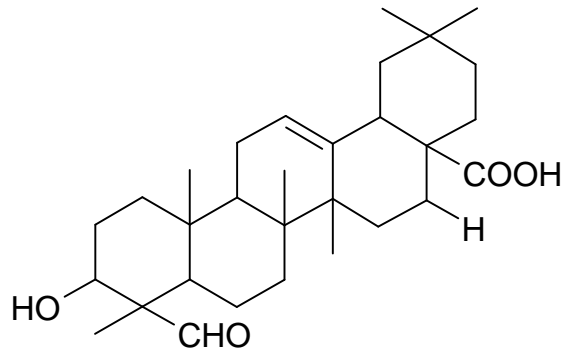


marrubiin



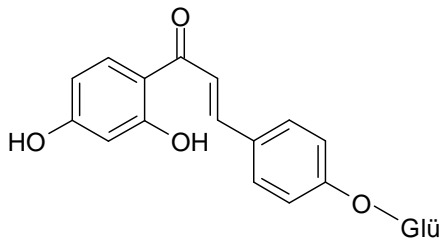
urzolsav

Saponariae albae radix, Saponariae rubrae radix
– fehér és vörös szappangyökér

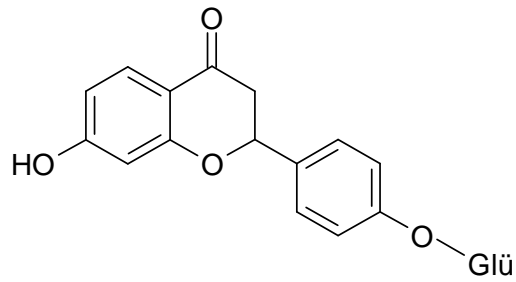


gipszogenin

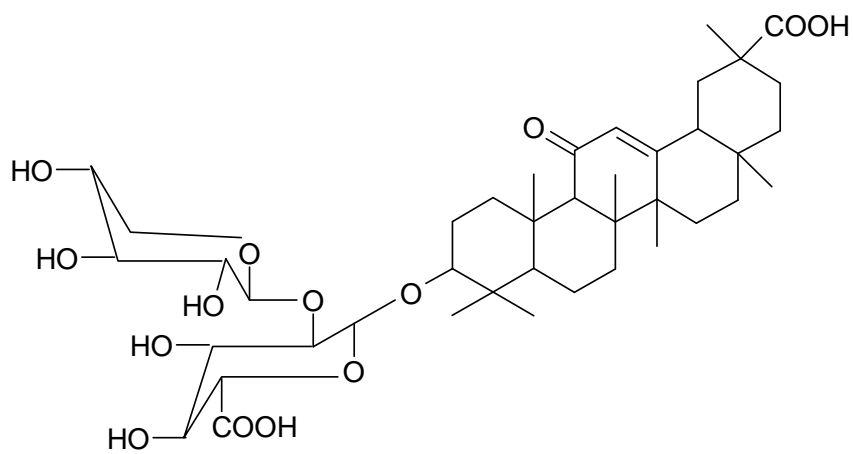
Liquiritiae radix – édesgyökér



izolikviritin

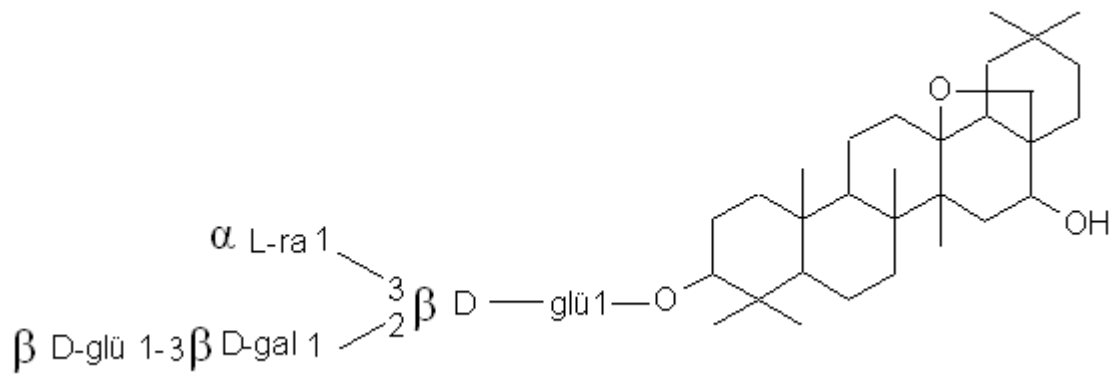


likviritin



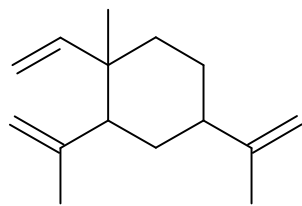
glicirrhizinsav

Primulae radix – kankalinyökér

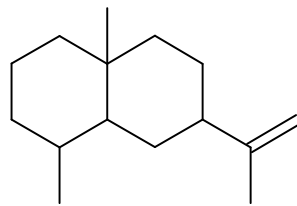


primulasav-A

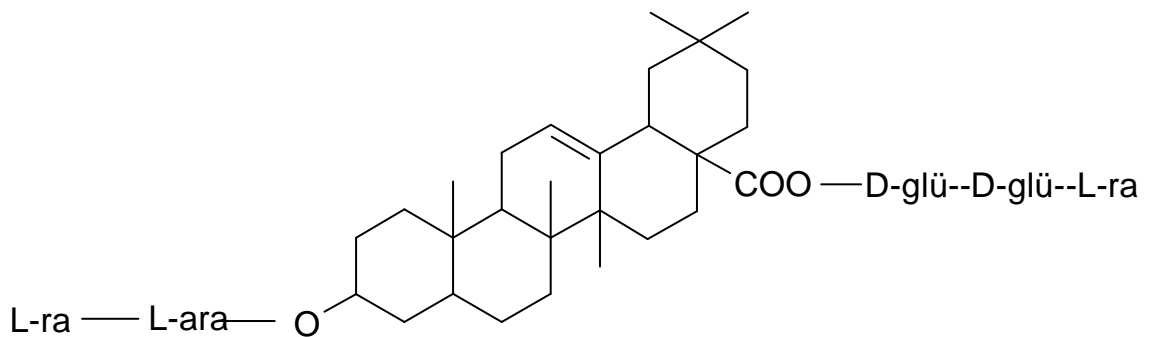
Hederae heliis folium – borostyánlevél



β -elemén

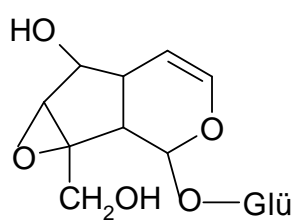


germakrén

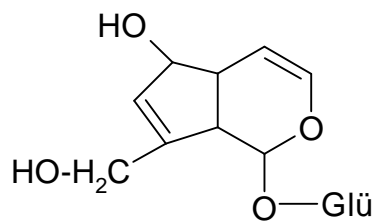


hederakozid-B

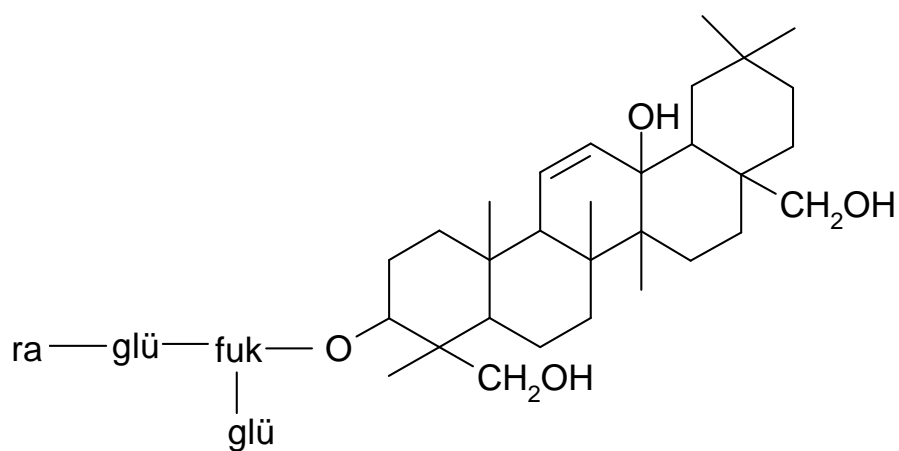
Verbasci flos – ökörfarkkóró virág



katalpol

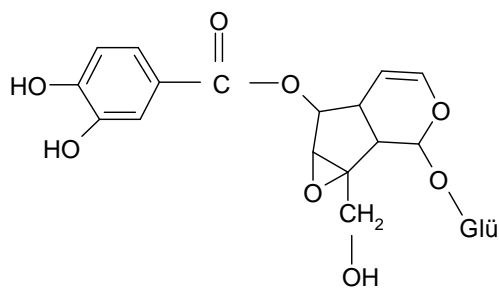


aukubin

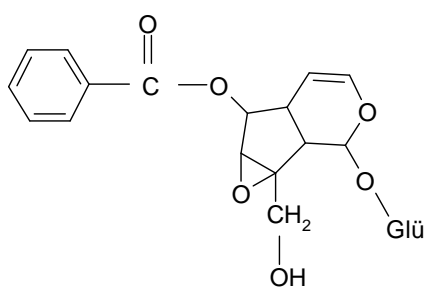


verbaszkoszaponin

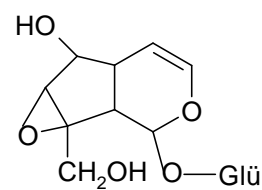
Veronicae herba – veronikafű



verpozid

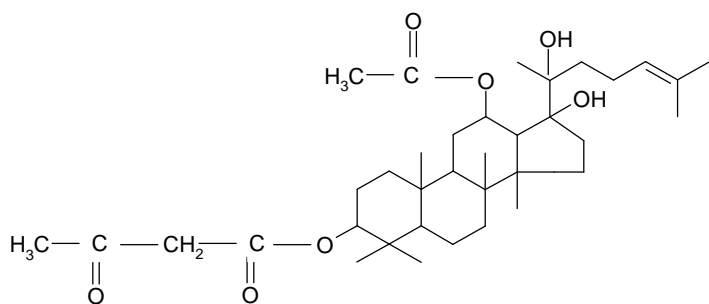


verinakozid

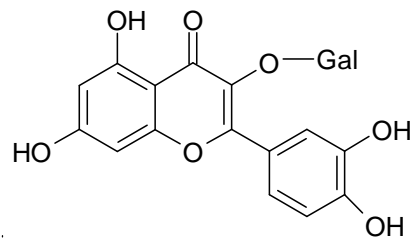


katalpol

Betulae folium – nyírlevél

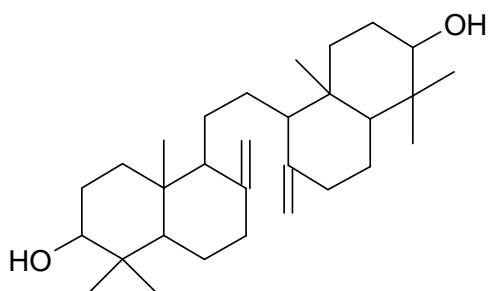


triterpénzaponin-1

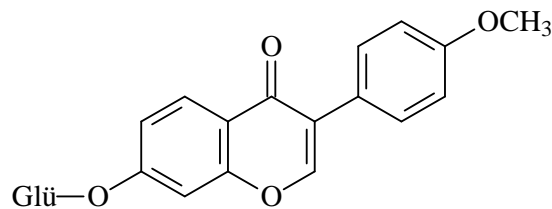


hiperozid

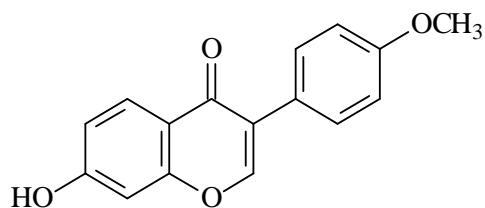
Ononidis radix – iglicegyökér



α-onocerin (=onocol)

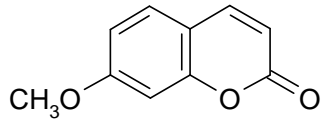


ononin

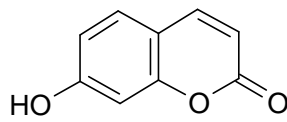


formononetin

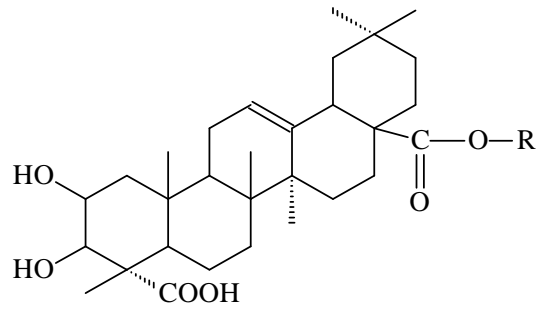
Herniariae herba – porcikafű



herniarin



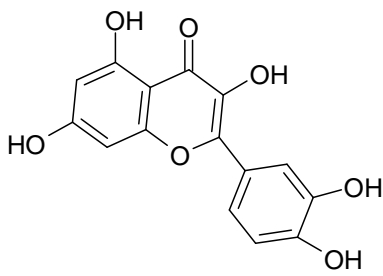
umbelliferon



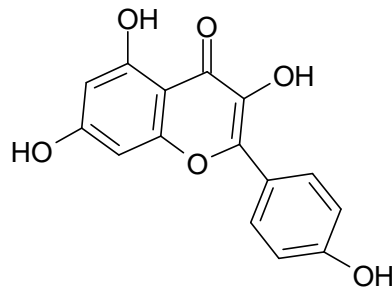
R=1-β-D-glükóz-6-1-β-D-glükóz
= herniariaszaponin I.

R=1-α-L-ramnóz-2-1β-D-glükóz
4-1β-D-glükóz
= herniariaszaponin II.

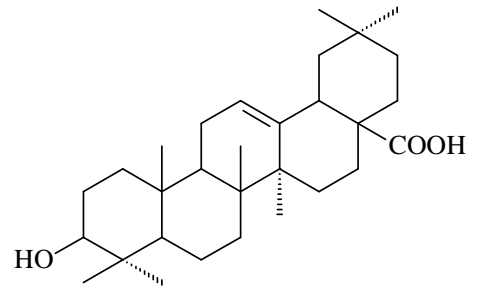
Solidaginis virgaureae herba – közönséges aranyvesszőfű



kvercetin

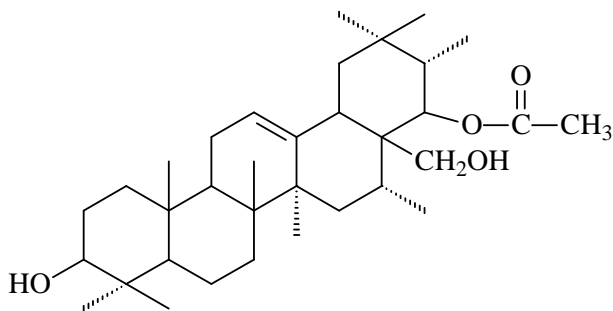


kempferol

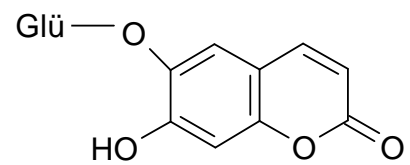


oleanolsav

Hippocastani semen, H. folium, H. cortex – vadgesztenye mag, levél, kéreg

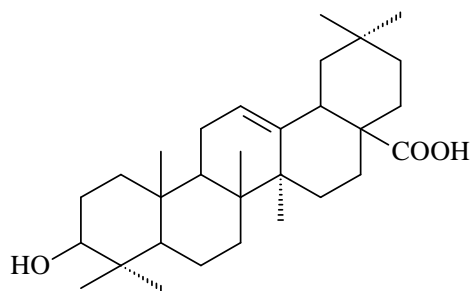


protoescigenin

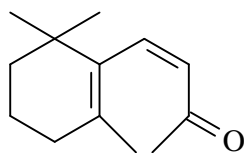


eszculin

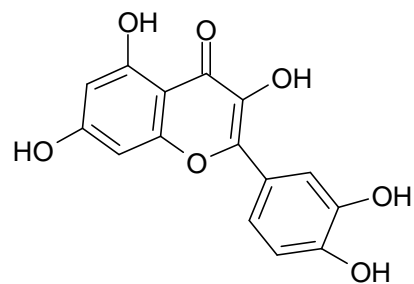
Calendulae flos - körömvirág



oleanolsav

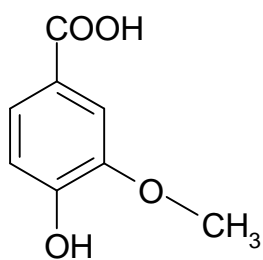


β -jonon

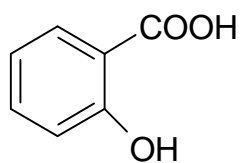


kvercetin

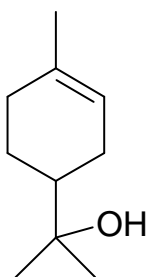
Ginseng radix - ginszenggyökér



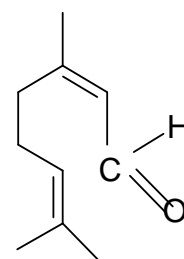
vanillinsav



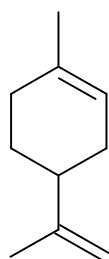
szalicilsav



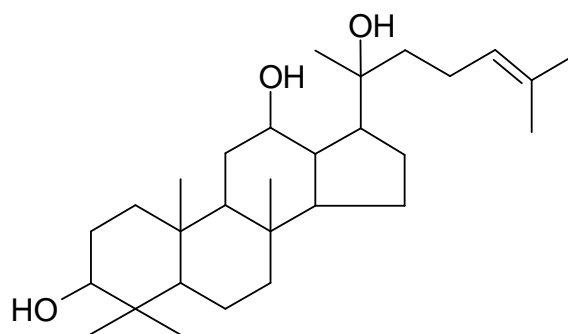
α -terpineol



citrál

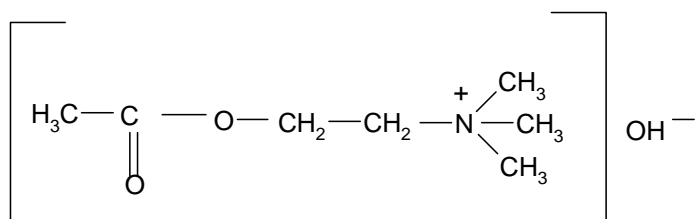


limonén

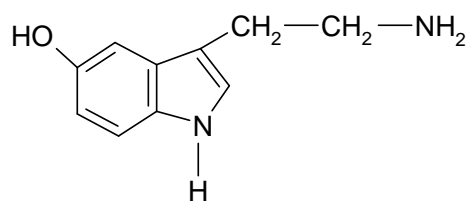


protopanaxadiol

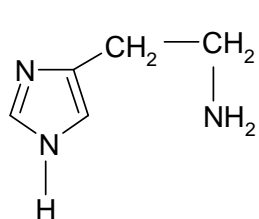
Urticae folium, U. radix – csalánlevél, gyökér



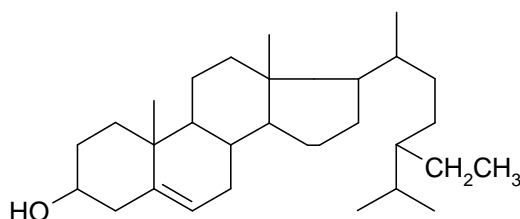
acetilkolin



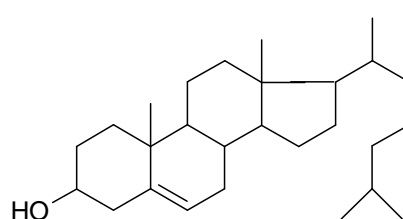
szerozin



hisztamin

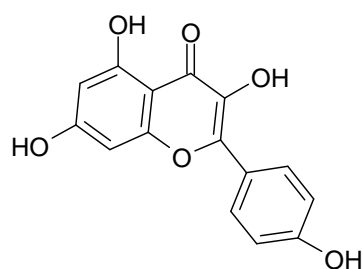


β-szitoszterol

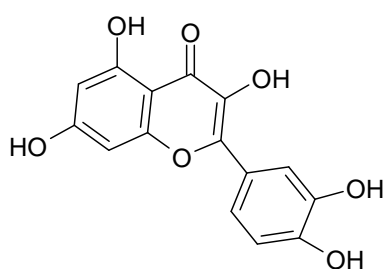


koleszterol

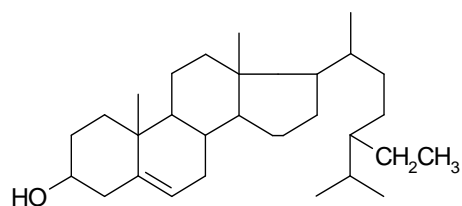
Epilobii herba – füzikefű



kempferol

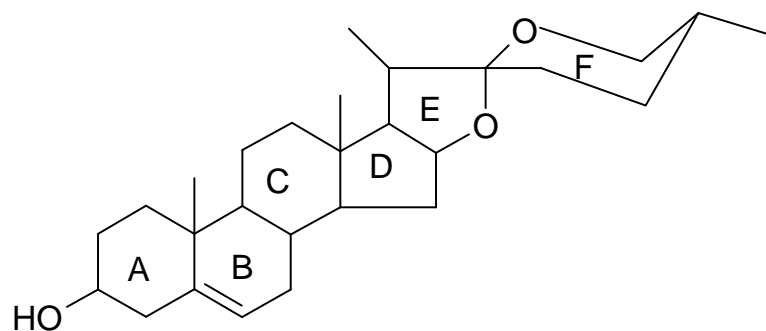


kvercetin



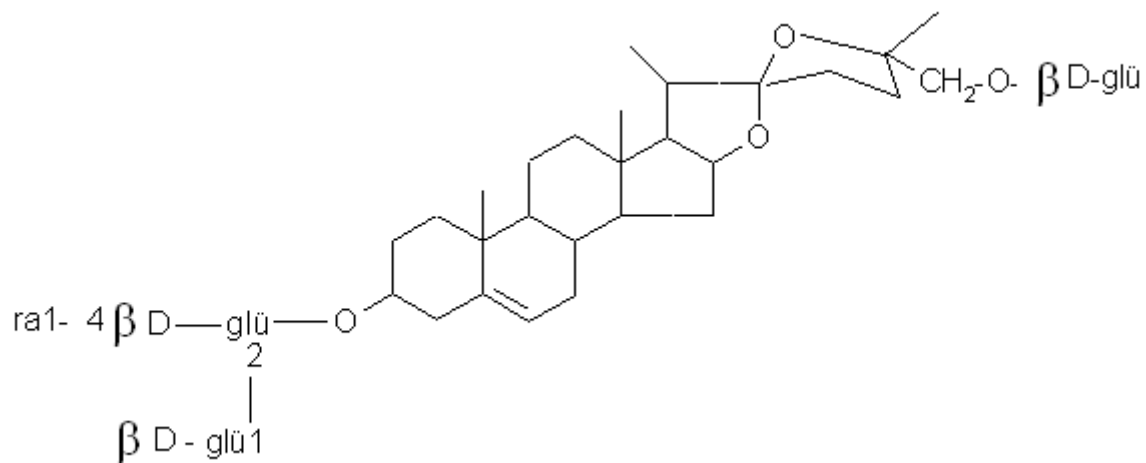
β-szitoszterol

Dioscoreae tuber – jamszgyökér gumó

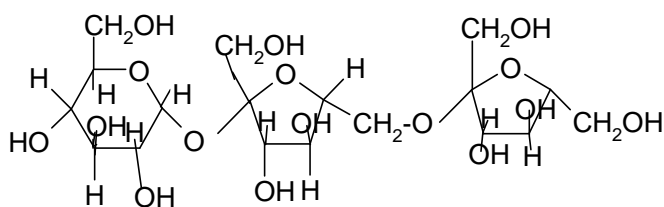


dioszgenin

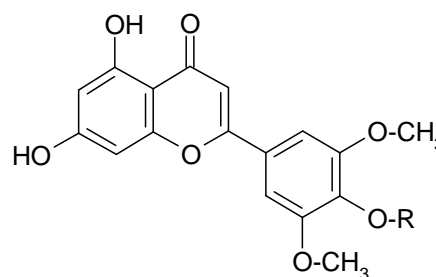
Avenae herba – (abrak)zabfű



avenakozid A

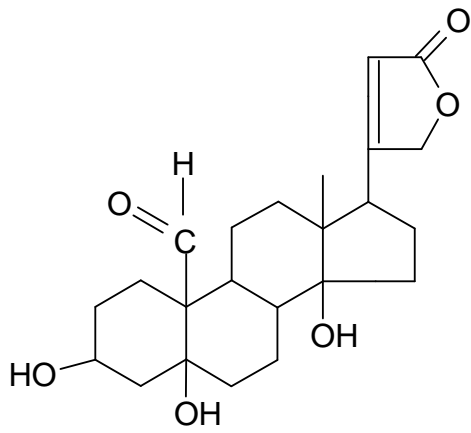


kesttóz

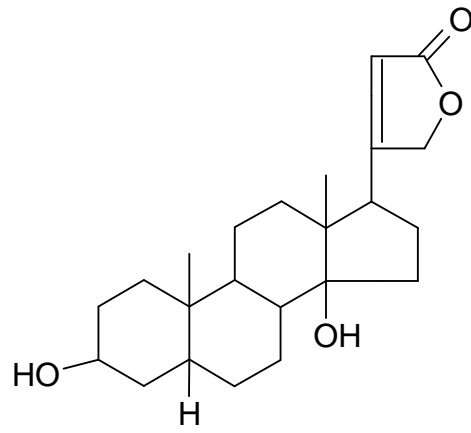


tricín

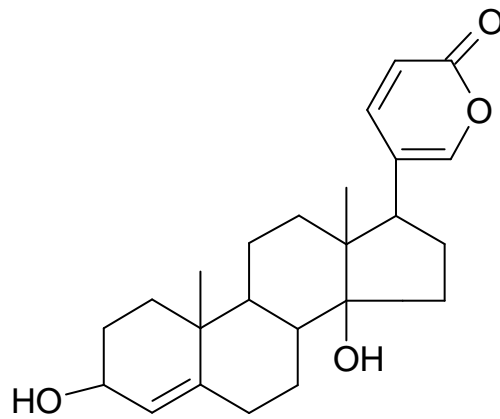
Kardenolid-bufadienolidok



sztrofantidin



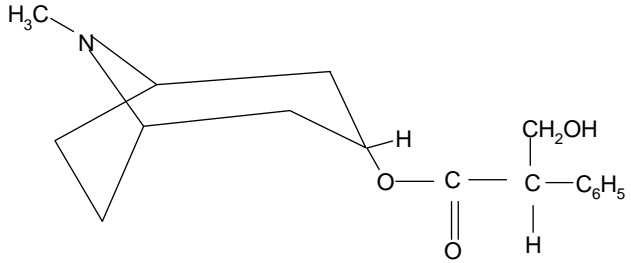
digitoxigenin



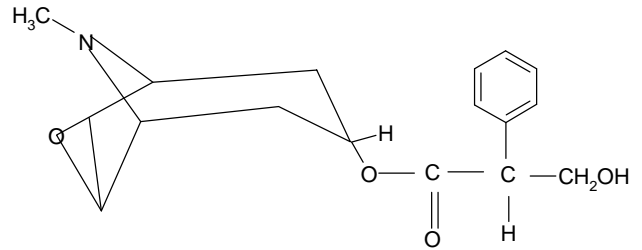
szcillarenin

Alkaloidok

Belladonnae radix, B. folium, Stramonii folium, Hyosциami folium
– nadragulyagyökér és -levél, maszlaglevél, beléndeklevél

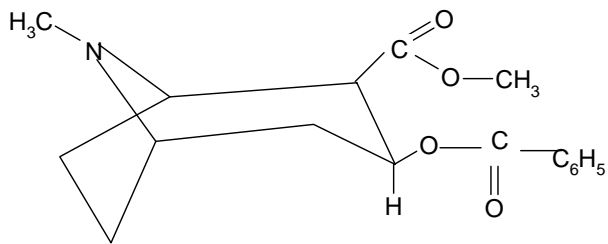


atropin
(L- és D-hioszciamin)

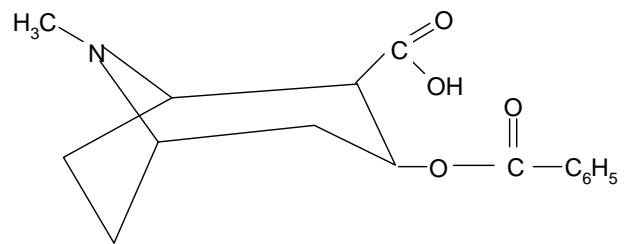


L-szkopolamin

Cocae folium – kokalevél

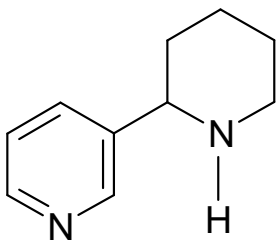


kokain

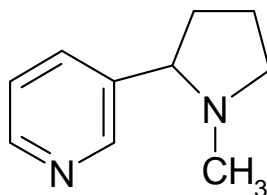


benzoilekgonin

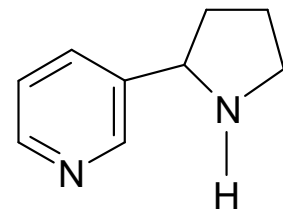
Nicotianae folium – dohánylevél



anabazin

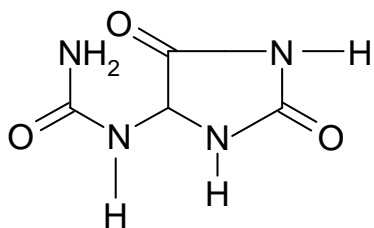


nikotin

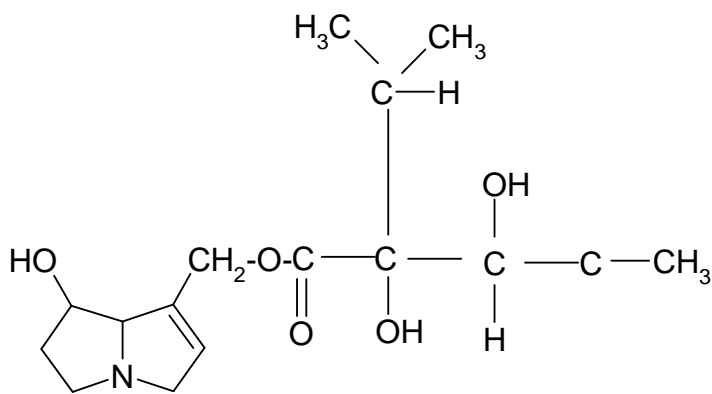


nornikotin

Symphyti radix – (fekete) nadálytő gyökér

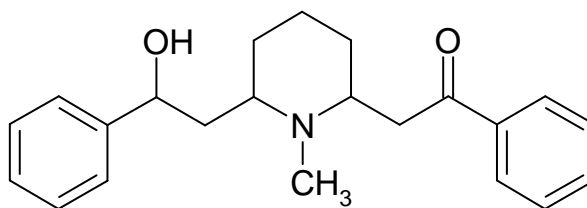


allantoin



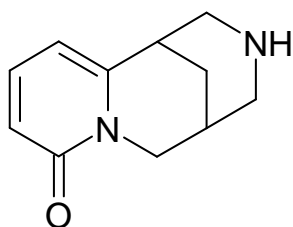
intermedin

Lobeliae herba – lobéliafü (porhonrojtű)

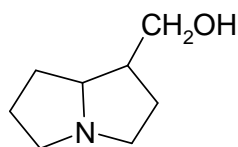


lobelin

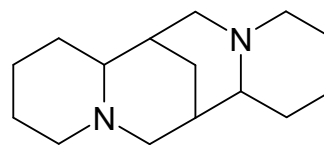
Laburni semen – aranyeső mag



citizin

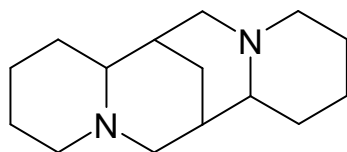


laburnin

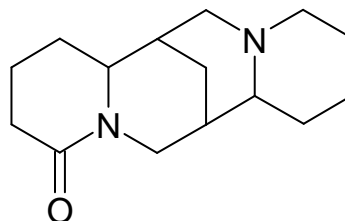


spartein

Sarothamni scoparii herba – seprűzanótfű

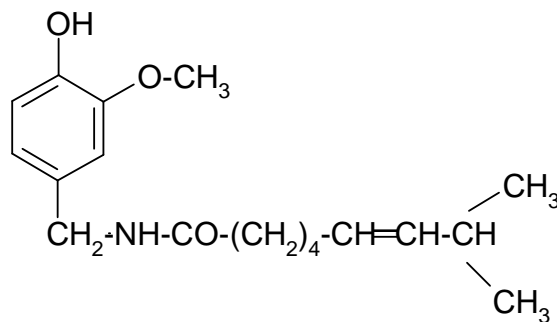


spartein



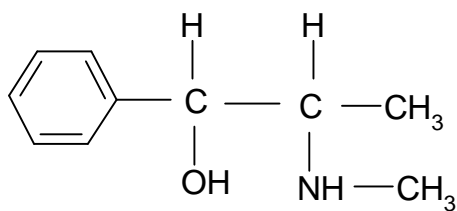
lupanin

Capsici fructus – paprika termés



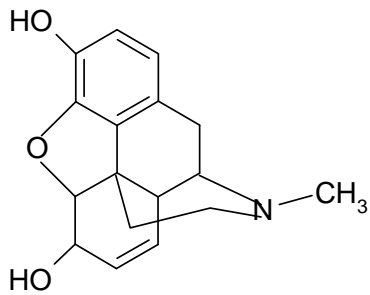
kapszaicin

Ephedrae herba – csikófarkfű

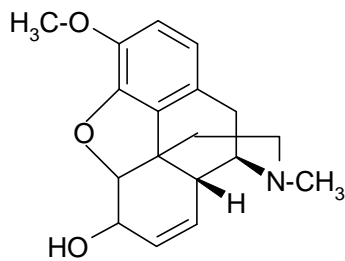


L-efedrin

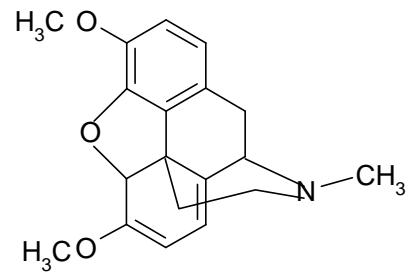
Papaveris caput – mák tok



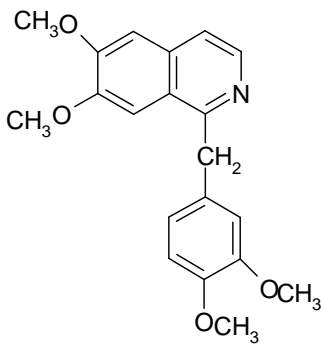
morfin



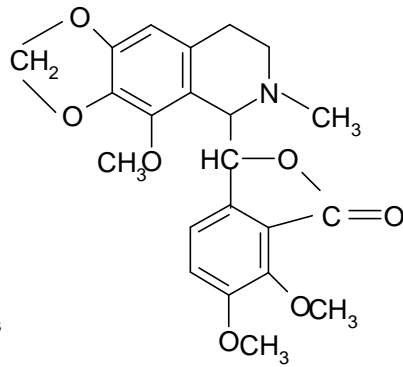
kodein



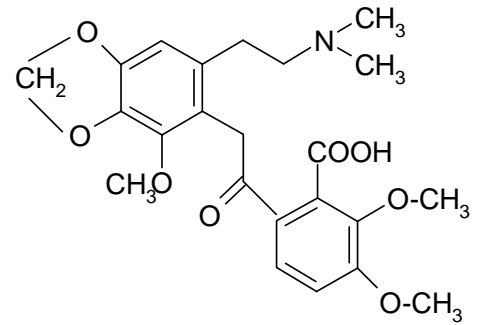
tebain



papaverin

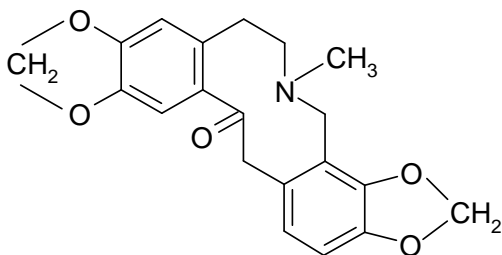


narkotin

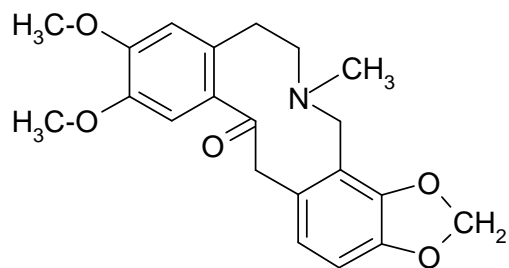


narcein

Fumariae herba – füstikefű

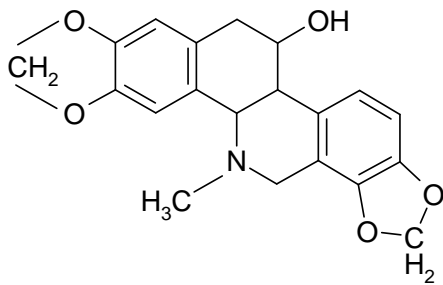


protopin

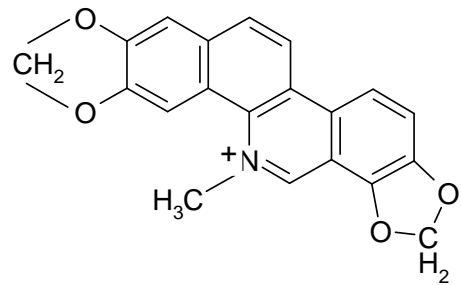


kriptopin

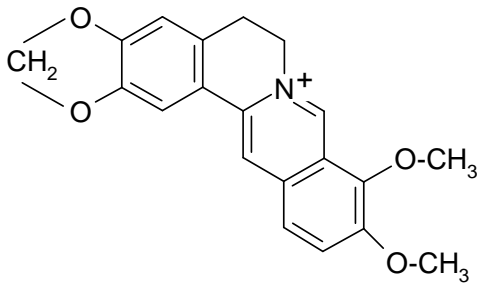
Chelidonii herba, C. radix – fecskéfű és -gyökér



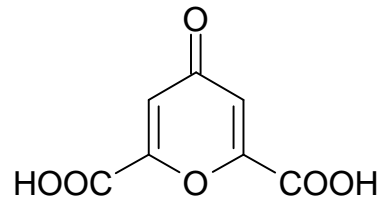
kelidonin



szangvinarin

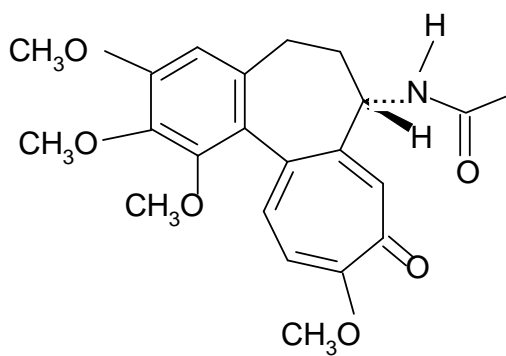


berberin

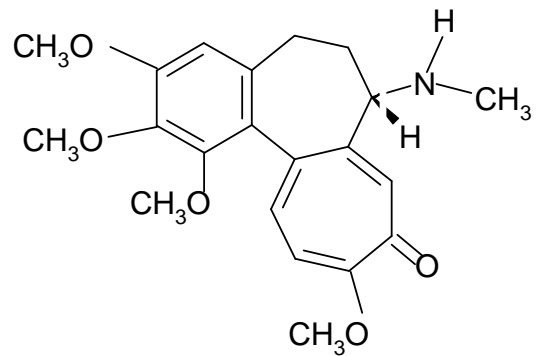


kelidonsav

Colchici tuber – kikerics gumó

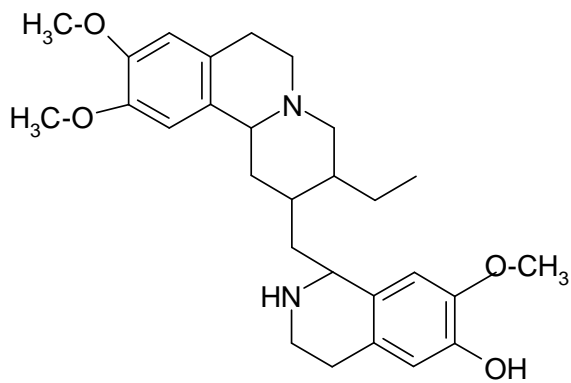


kolchicin

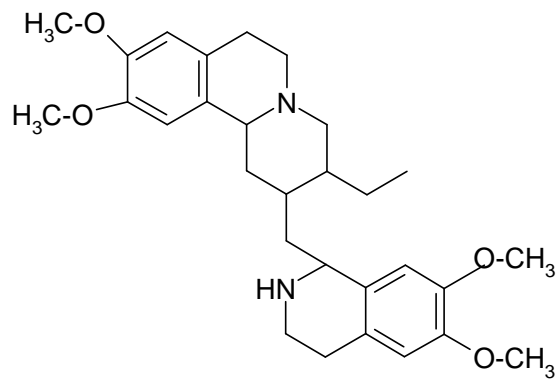


demekolcin

Ipecacuanhae radix – ipekakuána gyökér

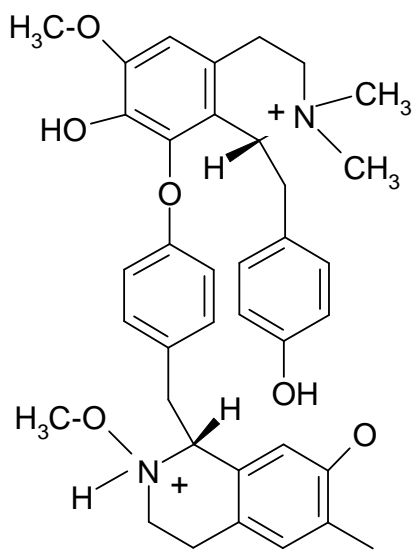


cefaelin

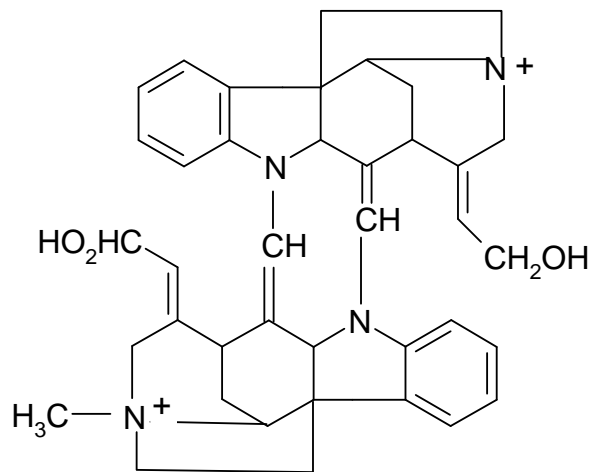


emetin

Curare – kuráre

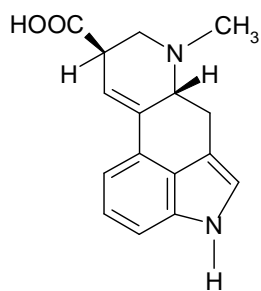


(+)-tubokurarin

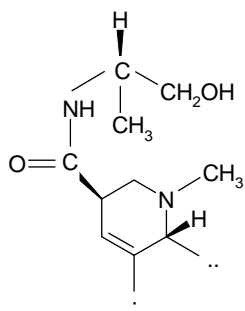


C-toxiferin

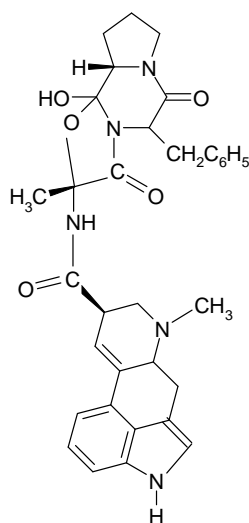
Secale cornutum – anyarozs



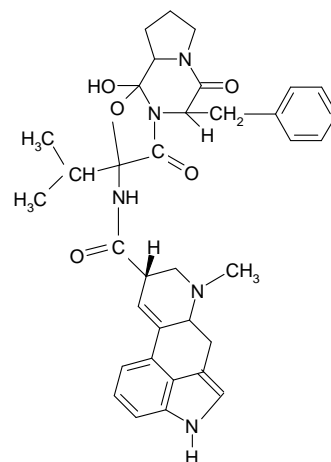
D-lizergsav



ergometrin

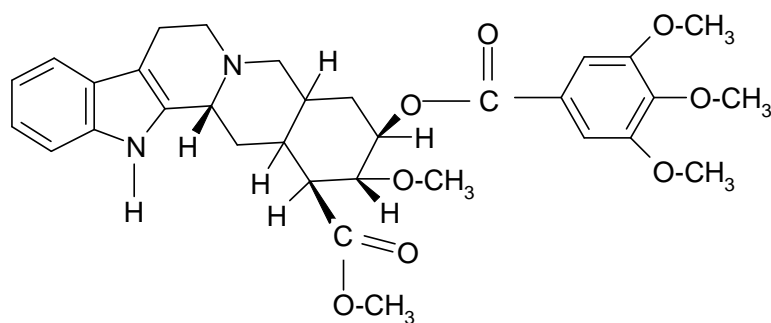


ergotamin

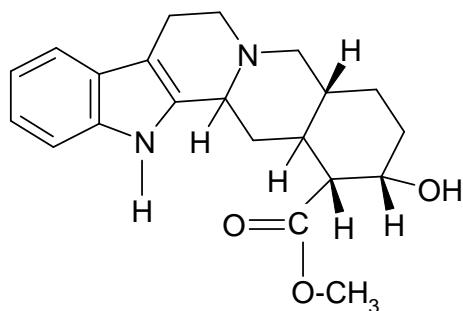


ergokrisztin

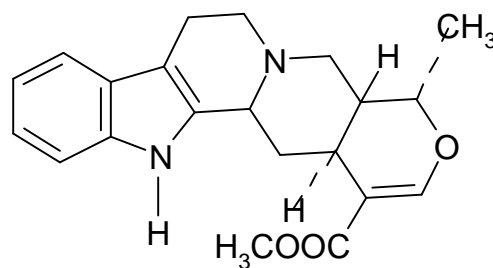
Rauwolfiae radix – rauwolfia (vérnyomáscserje) gyökér



reszerpin

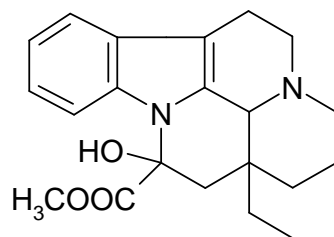


johimbin



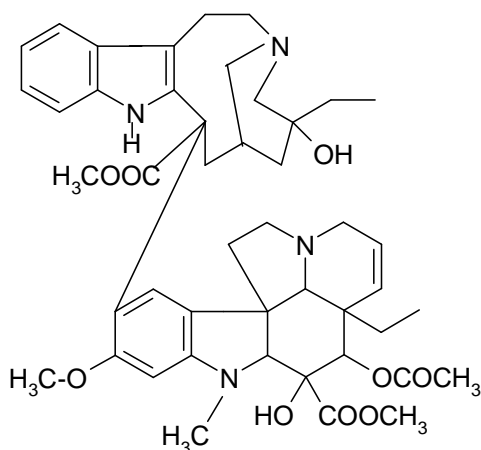
ajmalicin

Vincae minoris herba – meténgfű

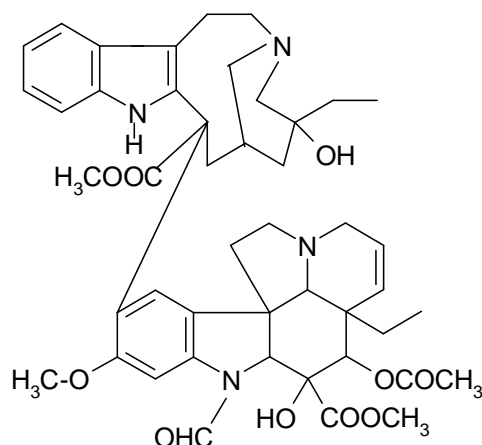


vinkamin

Catharanti rosei herba – rózsameténgfű

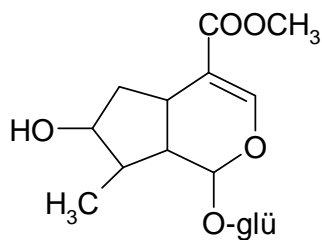


vinblasztin

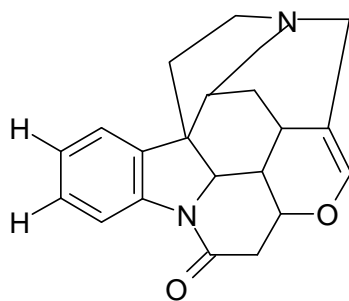


vinkrisztin

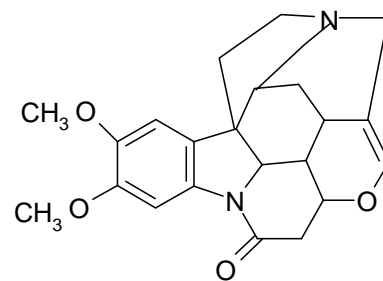
Strychni semen – sztrichnin mag



loganin

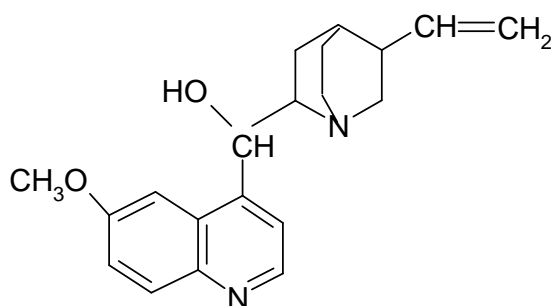


sztrichnin

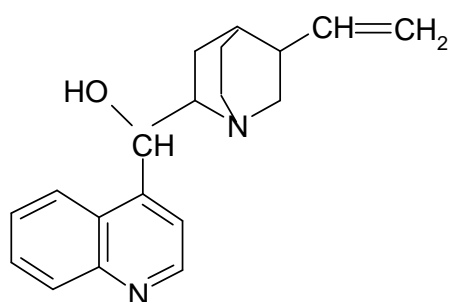


brucin

Chinae cortex – kínafa kéreg

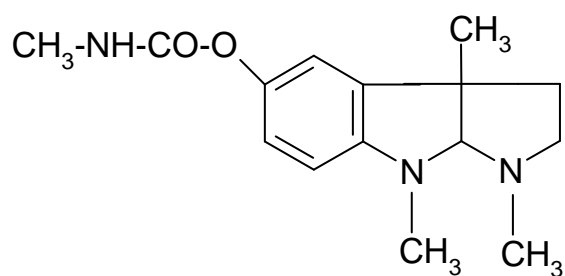


kinin – kinidin



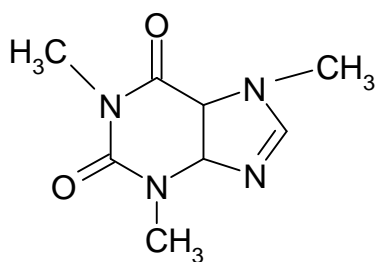
cinchonidin – cinchonin

Physostigmae semen – kalabárbab mag

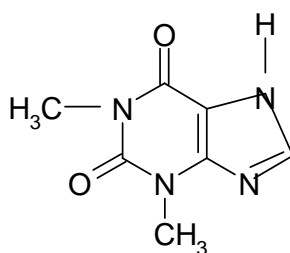


fizosztigmin

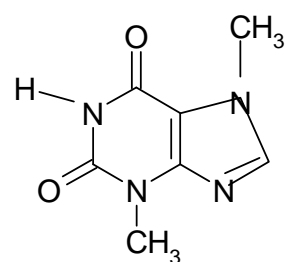
Xantinok



koffein

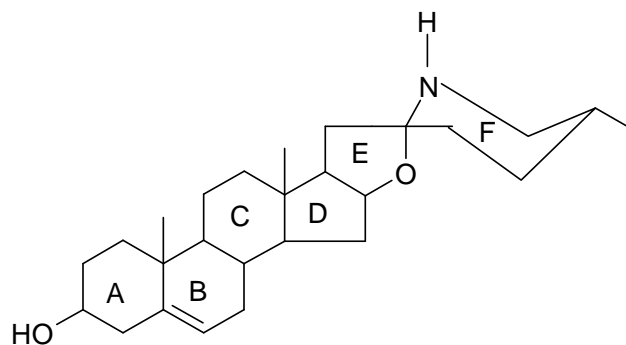


teofillin



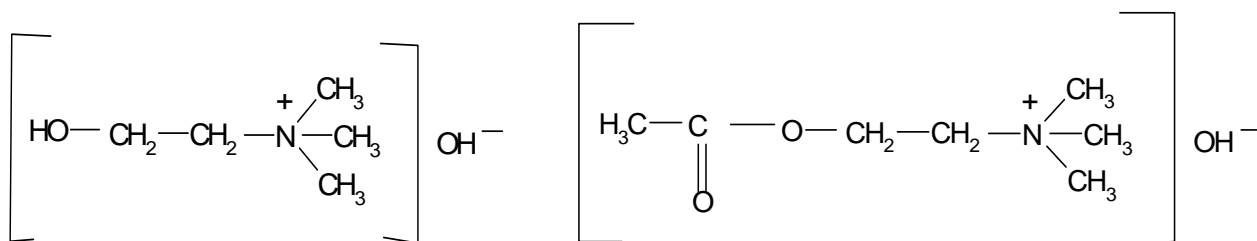
teobromin

Solani herba – csucsorfű



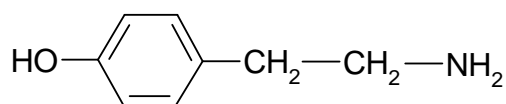
szolaszodin

Bursae pastoris herba – pásztortáskafű



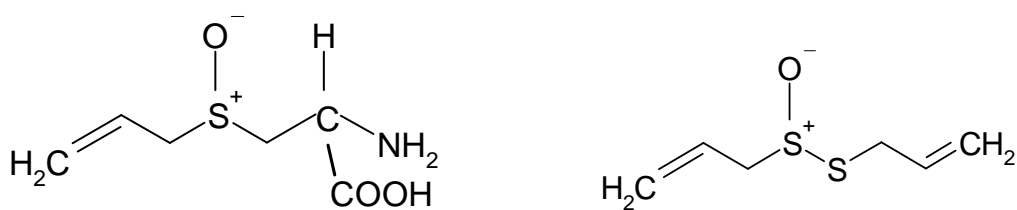
kolin

acetilkolin



tiramin

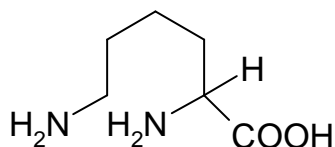
Allii sativi bulbus – fokhagyma



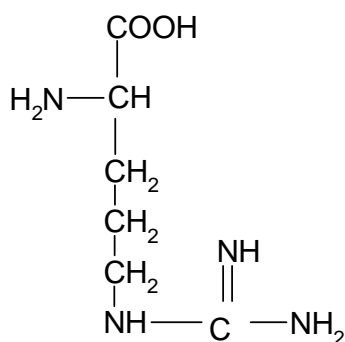
alliin

allicin

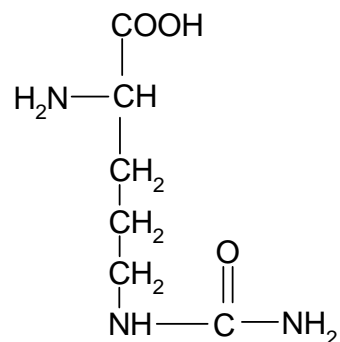
Galegae herba – kecskerutafű



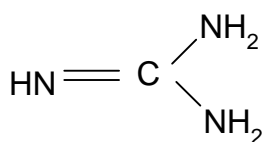
lizin



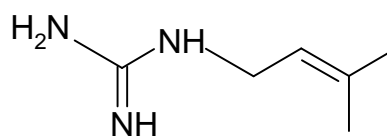
arginin



citrullin

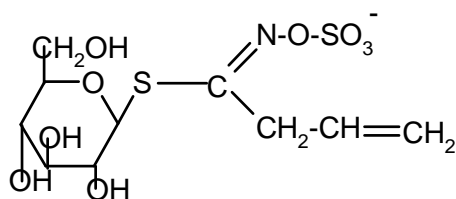


guanidin

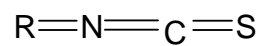


galegin

Sinapis albae semen, S. nigrae semen – fehér és fekete mustármag

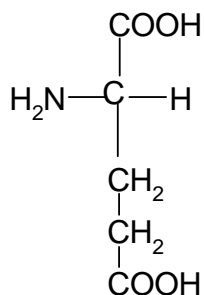


szinigrin

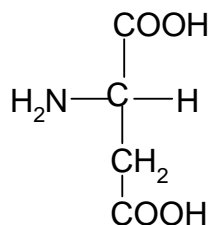


(alkil)izotiocianát

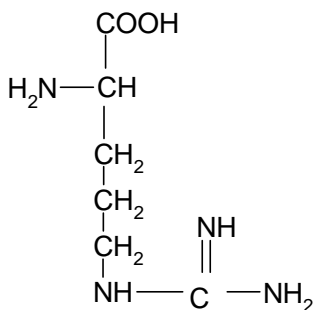
Phaseoli legumen – babhüvely



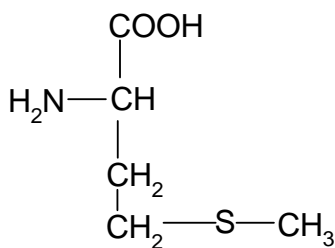
glutaminsav



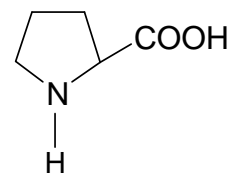
aszparaginsav



arginin

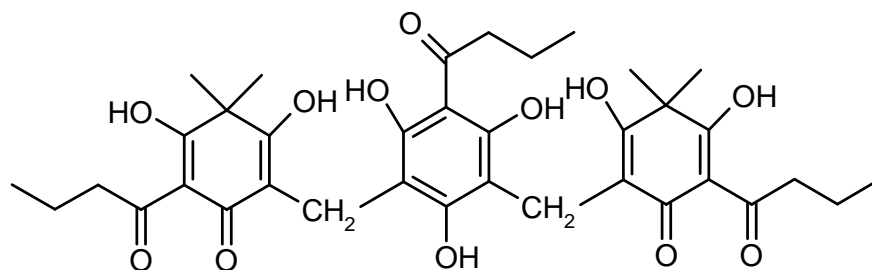


metionin



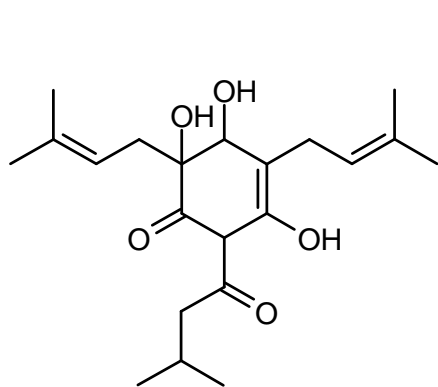
prolin

Filicis maris rhizoma – pajzsika gyökértörzs

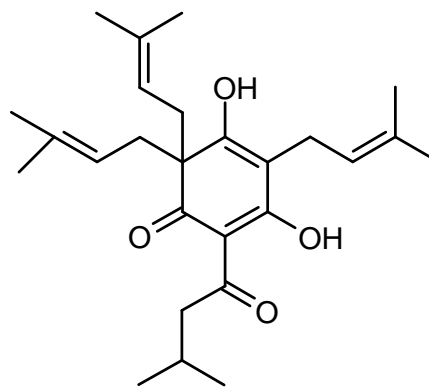


filixsav

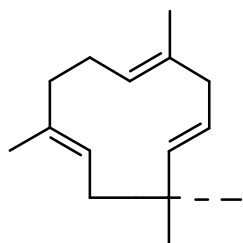
Lupuli strobulus – komlótohoz



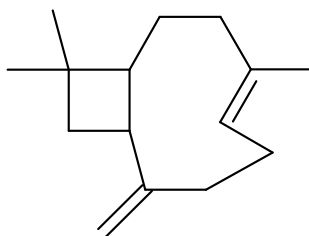
humulon



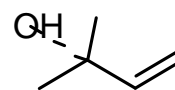
lupulon



humulén

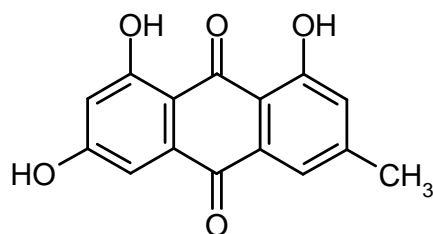


kariofillén



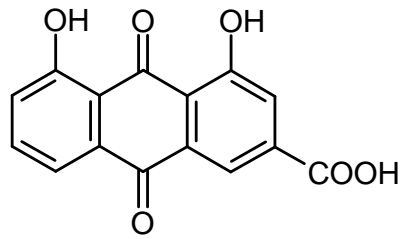
2-metil-3-butén-2-ol

Frangulae cortex – kutyabenge kéreg

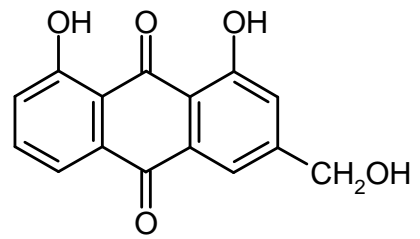


frangulaemodin

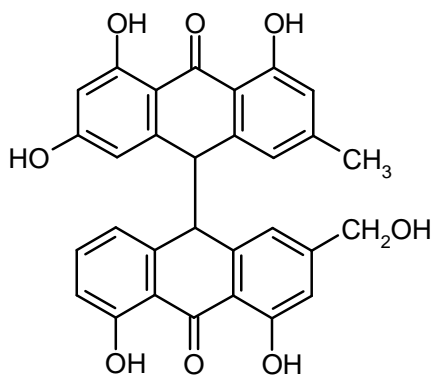
Rhei rhizoma – rebarbara gyökértörzs



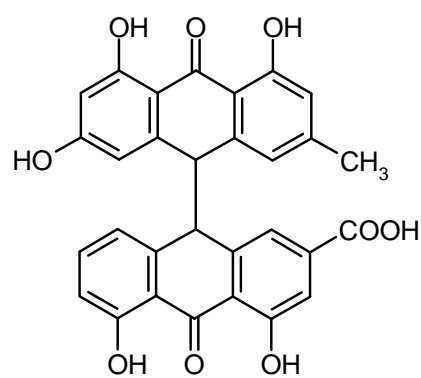
rein



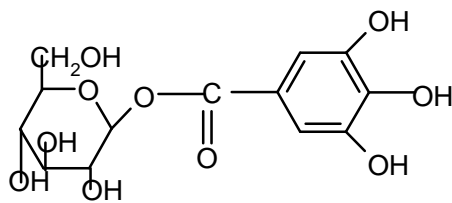
aloemodin



reumemodin-aloeemodin-diantron

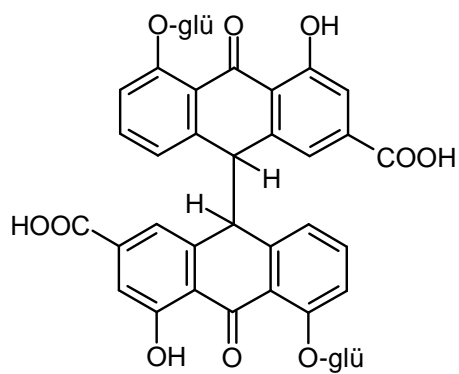


reumemodin-rein-diantron



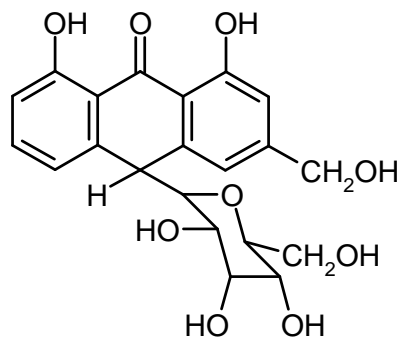
glükogallin

Sennae folium, S. fructus – szenna levél, termés



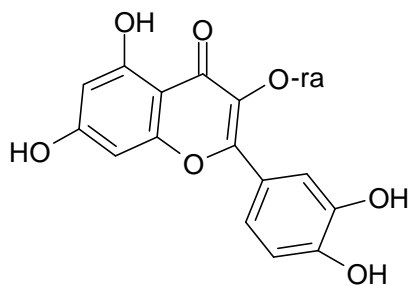
szennozid A

Aloe capensis – aloe gyanta

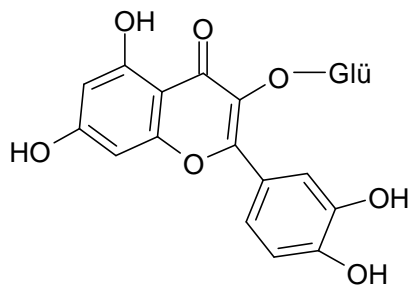


aloin

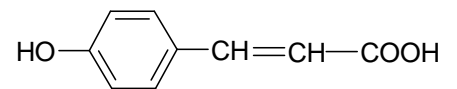
Tiliae flos – hársvirág



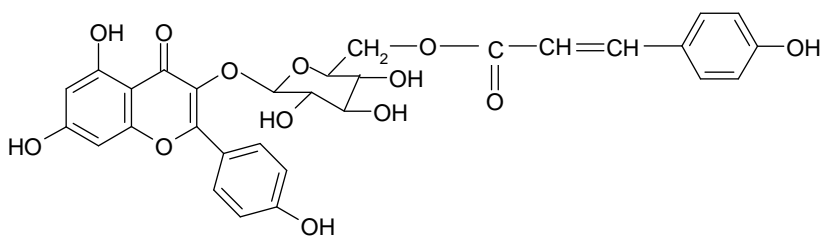
kvercitrin



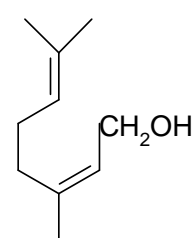
izokvercitrin



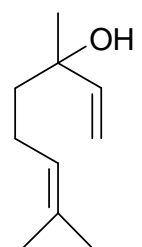
p-kumársav



tilirozid

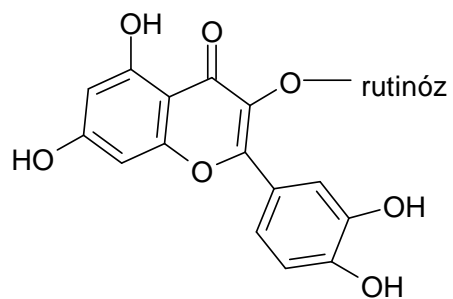


geraniol

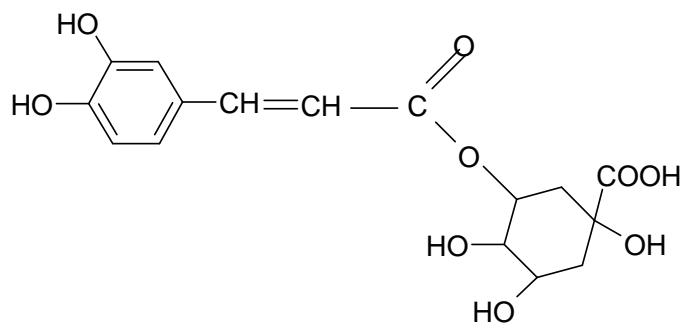


linalool

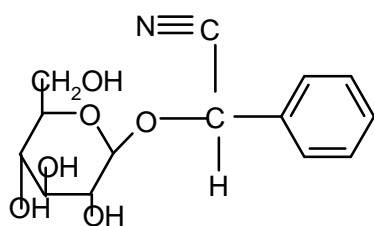
Sambuci flos – bodzavirág



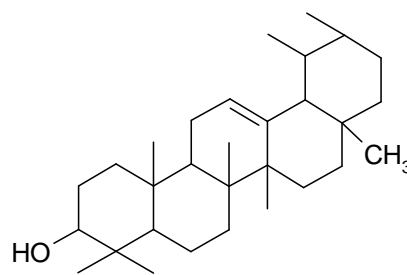
rutin



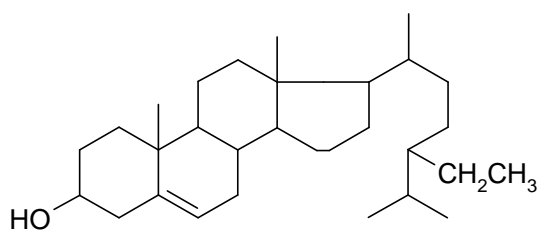
klorogénsav



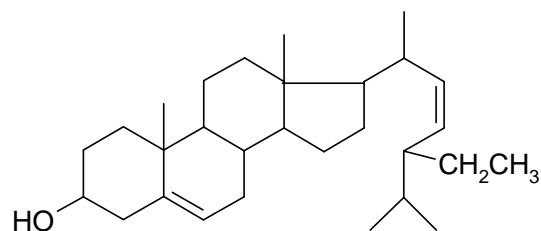
szambunigrin



α -amirin

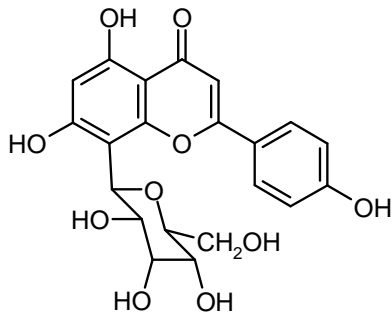


β -szitoszterol

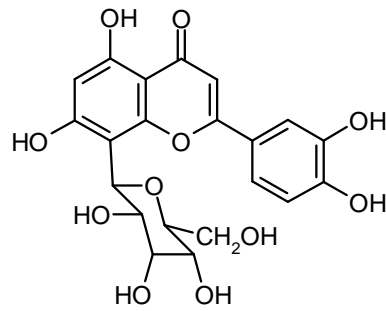


sztigemaszterol

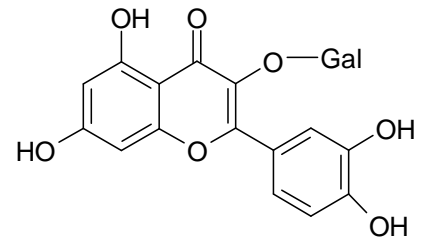
Crataegi folium cum flore (=summitas) – galagonya ágvég



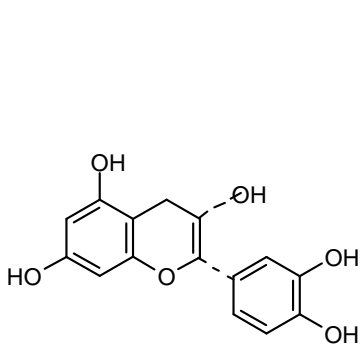
vitexin



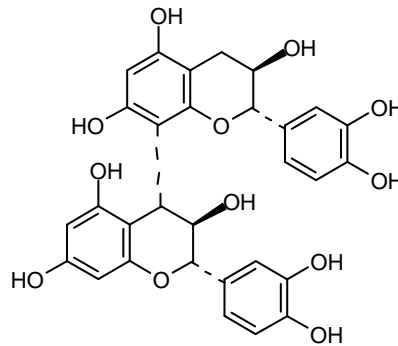
orientin



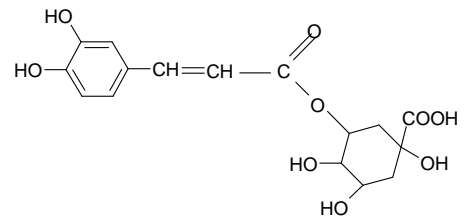
hiperozid



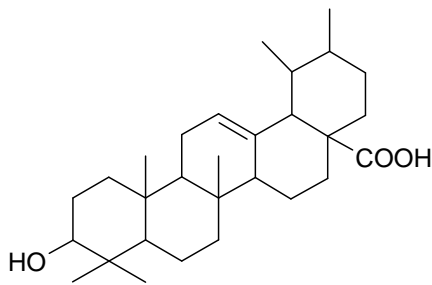
epikatechin



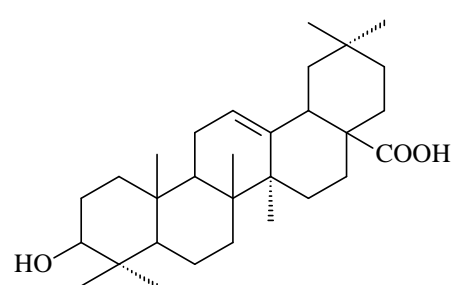
dimér-procianidin



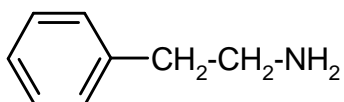
klorogénsav



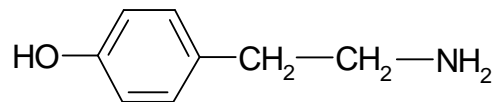
urzolsav



oleanolsav

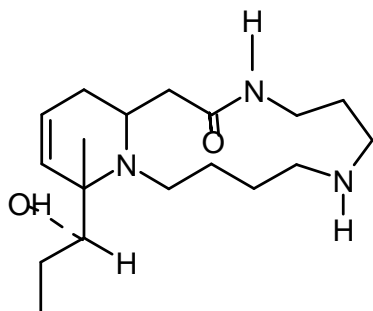


fenetilamin



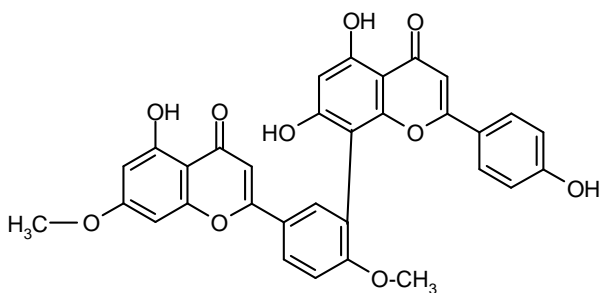
tiramin

Equiseti herba – zsurlófű

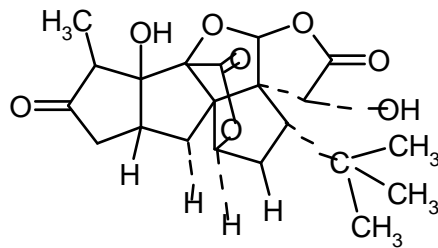


palusztrin

Ginkgo bilobae folium – ginkgó (páfrányfenyő) levél

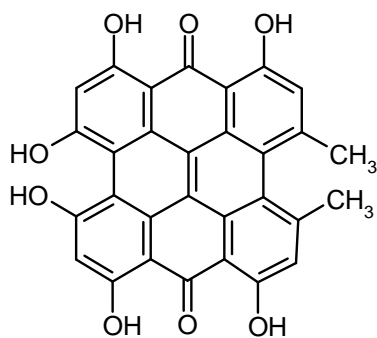


ginkgetin

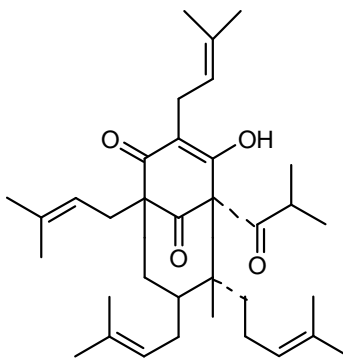


ginkgolid A

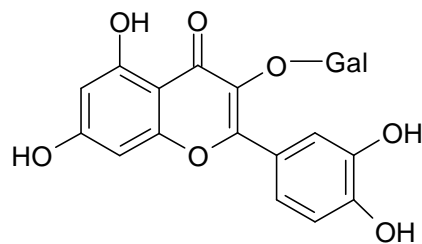
Hyperici herba – orbáncfű



hipericin

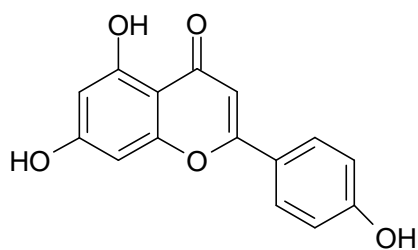


hiperforin

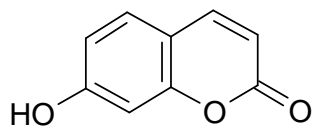


hiperozid

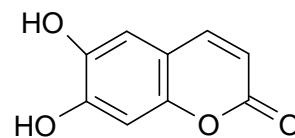
Stoechados flos – szalmagyopár virág



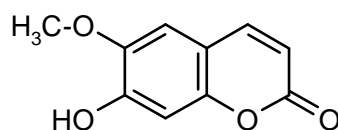
apigenin



umbelliferon

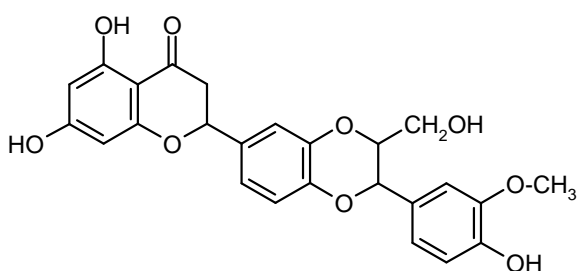


eszketin

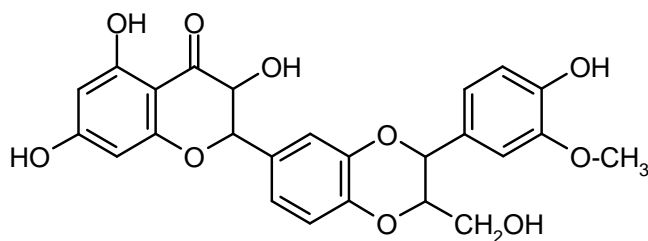


szkopoletin

Silybi mariae fructus – máriatövis termés

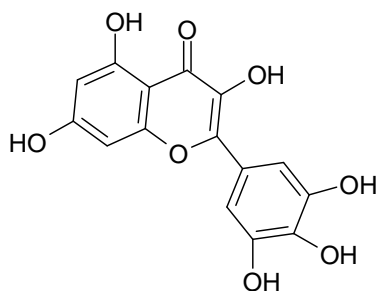


sziliandrin

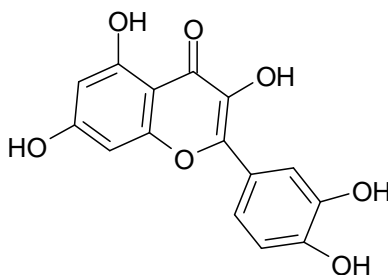


szilibin

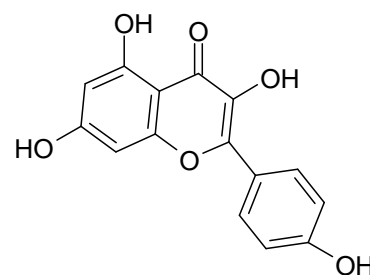
Ribis nigri folium – (fekete) ribiszke levél



miricetin

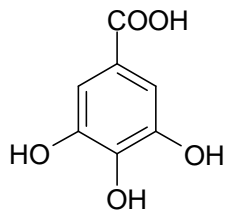


kvercetin

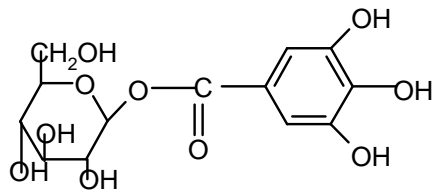


kempferol

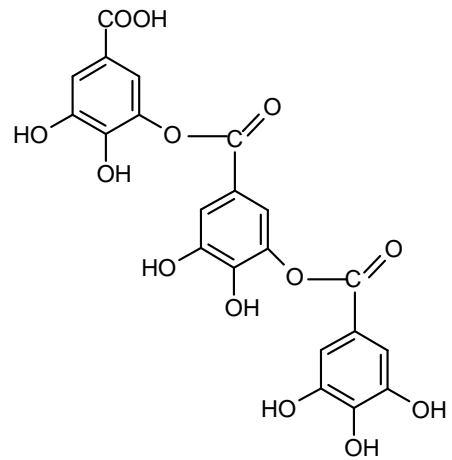
Galla, Quercus cortex – tölgykéreg



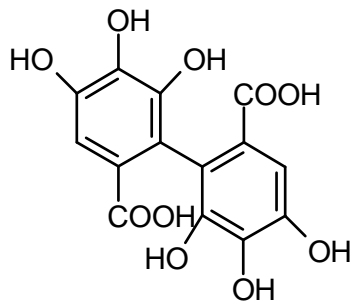
galluszsav



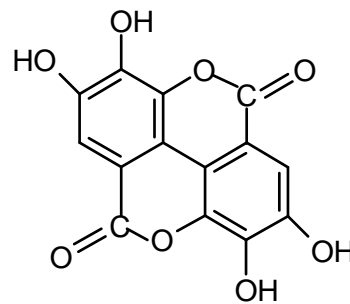
glükogallin



m-trigalluszsav

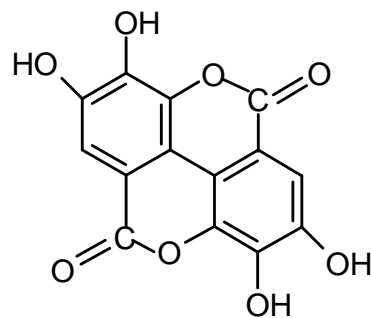


hexaoxidifénsav



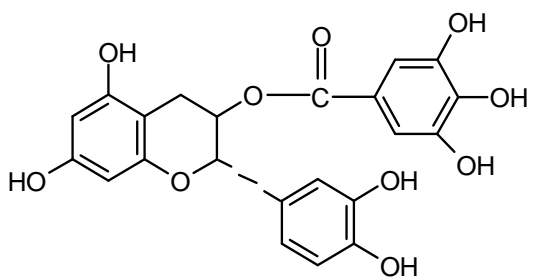
ellágsav

Anserinae herba – libapimpófű

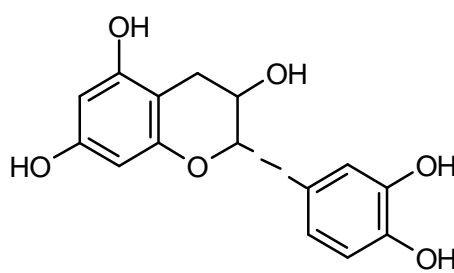


ellágsav

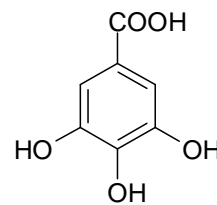
Tormentillae rhizoma – vérontófű gyökértörzs



katechin-gallát

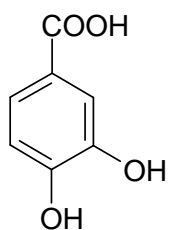


katechin

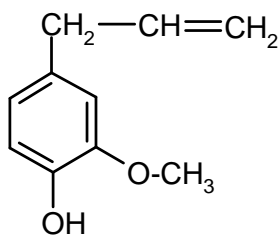


galluszsav

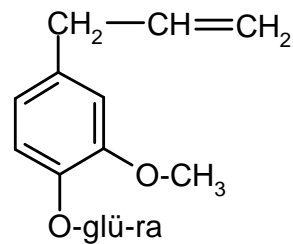
Gei radix et rhizoma – gyömbérgyökér és gyökértörzs



protokatechusav

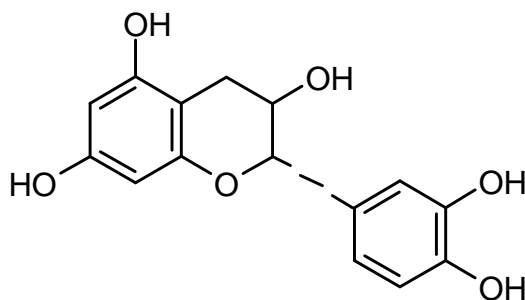


eugenol



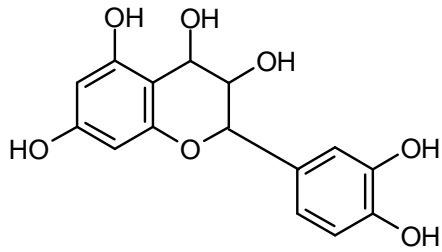
gein

Agrimoniae herba – párlófű

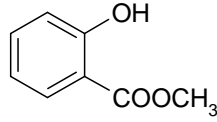


katechin

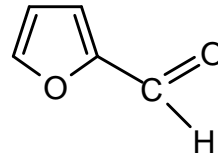
Fragariae folium – szederlevél



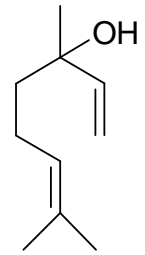
leukocianidin



metilszalicilát

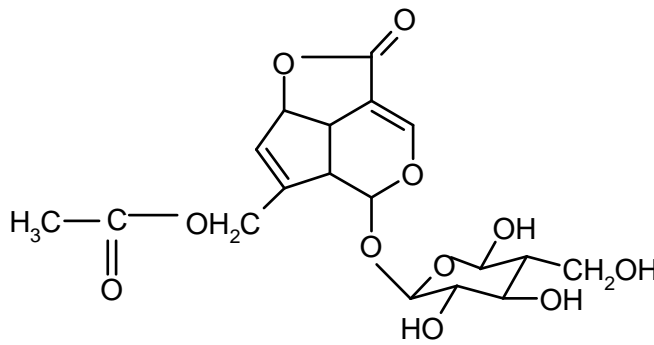


furfural = furfurol



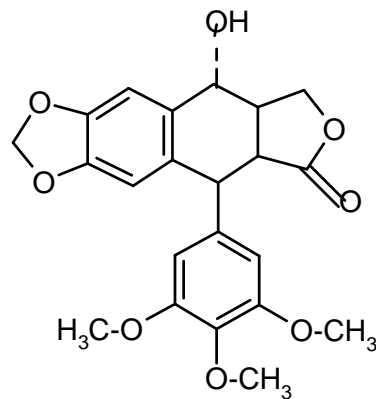
linalool

Myrtilli folium, M. fructus – (fekete) áfonyalevél, termés



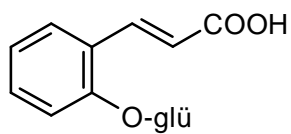
aszperulozid

Podophylli rhizoma – (amerikai) tojásbogyó gyökértörzs

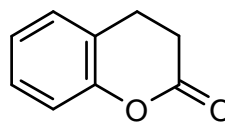


podofillotoxin

Meliloti herba – somkórófű

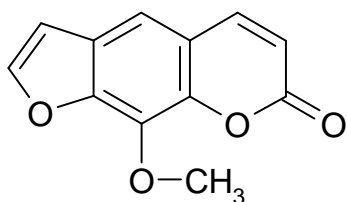


melilotozid

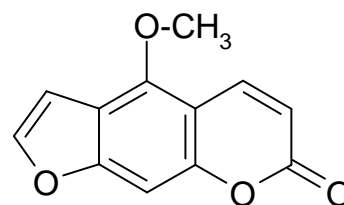


melilotin

Angelicae radix – angyalgyökér

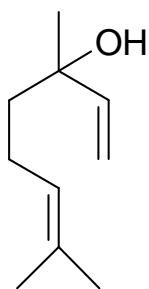


xantotoxin

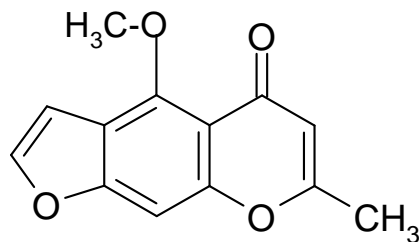


bergaptén

Ammeos visnagae fructus – fogpiszkálófű termés

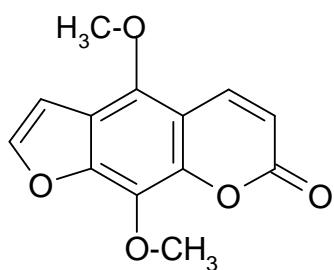


linalool



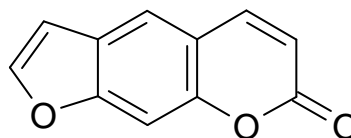
visznagin

Ammi majoris fructus – ammi termés



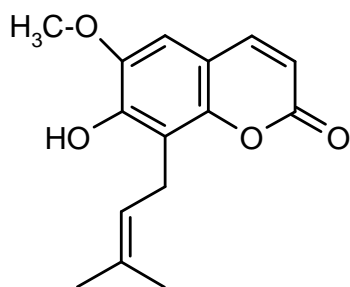
izopimpinellin

Levistici radix – lestyángyökér



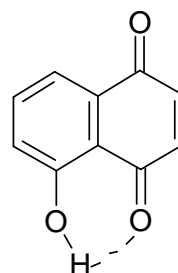
pszoralén

Apii fructus – zeller termés



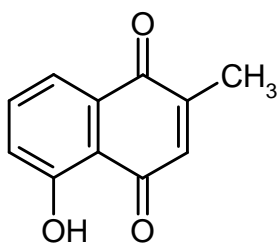
apigravin

Juglandis folium – diólevél



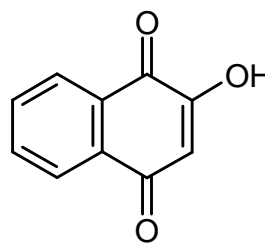
juglon

Droserae herba – harmatfű



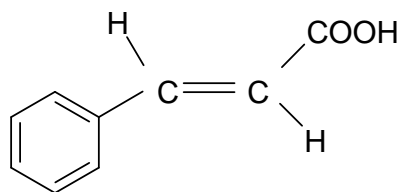
plumbagin

Lawsoniae (Hennae) folium – hennalevél



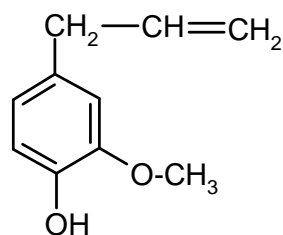
2-hidroxi-naftokinon (=lawson)

Cinnamomi cortex – fahéjfa kéreg



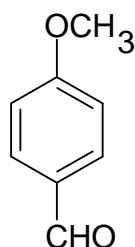
fahéjsav

Caryophylli flos – szegfűszeg virág

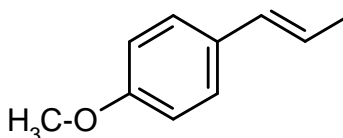


eugenol

Anisi vulgaris fructus – (közönséges) ánizstermés

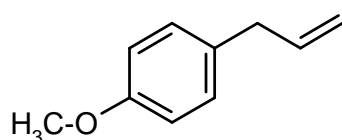


ánizsaldehyd

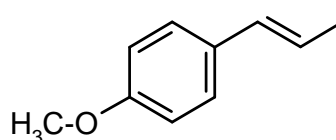


t-anetol

Foeniculi fructus – édeskömény termés

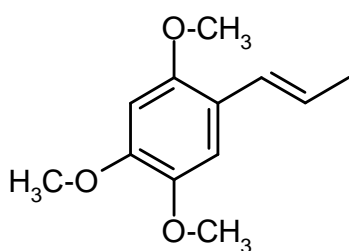


metilkavikol



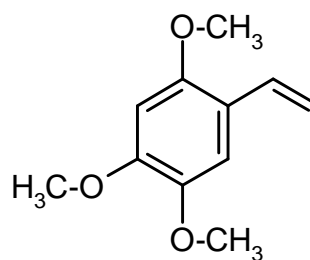
t-anetol

Asari rhizoma – kapotnyak gyökértörzs



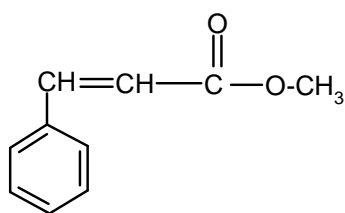
t-azaron

Calami rhizoma – kálmos gyökértörzs

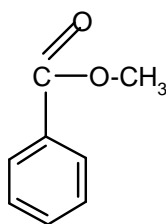


β-azaron

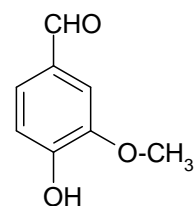
Balsamum peruvianum – perubalzsam



metilcinnamát

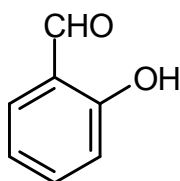


metilbenzoát



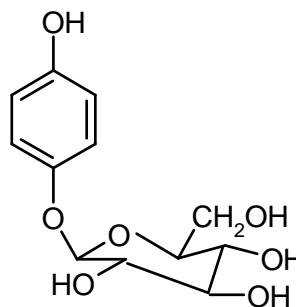
vanillin

Spireae flos – réti legyezőfű virág



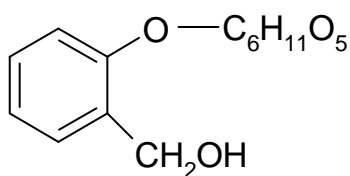
szalicilaldehid

Uvae ursi folium – medveszőlő levél



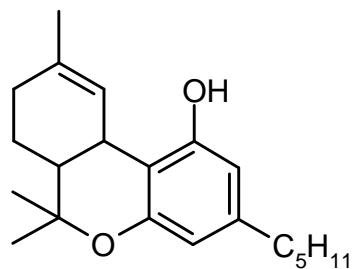
arbutin

Salicis cortex – fűzfa kéreg



szalicin

Cannabis herba – kenderfű



THC (tetrahydrokannabinol)

Drogok és anyanövényeik

Drog	Anyanövény	
<i>Absinthi herba</i>	<i>Artemisia absinthium</i> L.	fehér üröm
<i>Agrimoniae herba</i>	<i>Agrimonia eupatoria</i> L.	párlófű
<i>Allii sativi bulbos</i>	<i>Allium sativus</i> L.	fokhagyma
<i>Aloe capensis</i>	<i>Aloe ferox</i> Mill., <i>A. vera</i> (L.) Burm. f.	tövises és orvosi aloé
<i>Ammeos visnagae fructus</i>	<i>Ammi visnaga</i> (L.) Lam.	fogpiszkálófű
<i>Ammi majoris fructus</i>	<i>Ammi majus</i> L.	ammi
<i>Angelicae radix</i>	<i>Angelica archangelica</i> L.	orvosi angyalgyökér
<i>Anisi vulgaris fructus</i>	<i>Pimpinella anisum</i> L.	ánizs
<i>Anserinae herba</i>	<i>Potentilla anserina</i> L.	libapimpó
<i>Apii fructus</i>	<i>Apium graveolens</i> L.	zeller
<i>Arnicae flos</i>	<i>Arnica montana</i> L.	hegyi árnika
<i>Artemisiae vulgaris herba</i>	<i>Artemisia vulgaris</i> L.	fekete üröm
<i>Asari rhizoma</i>	<i>Asarum europaeum</i> L.	kapotnyak
<i>Aurantii epi- et mesocarpium</i>	<i>Citrus aurantium</i> L.	narancs
<i>Avenae herba</i>	<i>Avena sativa</i> L.	(abrak)zab
<i>Balsamum peruvianum</i>	<i>Myroxylon balsamum</i> (L.) Harms var. <i>pereirae</i> (Royle) Harms	perubalzsam
<i>Bardanae radix</i>	<i>Arctium lappa</i> L. <i>A. tomentosum</i> Mill. <i>A. minus</i> (Hill) Bernh	közönséges bojtorján pókhálós bojtorján kis bojtorján
<i>Belladonnae radix</i>	<i>Atropa belladonna</i> L.	nadragulya
<i>Belladonnae folium</i>	<i>Atropa belladonna</i> L.	nadragulya
<i>Betulae folium</i>	<i>Betula pendula</i> Roth	közönséges nyír
<i>Bursae pastoris herba</i>	<i>Capsella bursa-pastoris</i> (L.) Medic.	pásztortáska
<i>Calami rhizoma</i>	<i>Acorus calamus</i> L.	kálmos
<i>Calendulae flos</i>	<i>Calendula officinalis</i> L.	körömvirág
<i>Cannabis herba</i>	<i>Cannabis sativa</i> L.	kender
<i>Capsici fructus</i>	<i>Capsicum annuum</i> L.	paprika
<i>Cardamomi fructus</i>	<i>Elettaria cardamomum</i> White et Maton	kardamom
<i>Cardui benedicti herba</i>	<i>Cnicus benedictus</i> L.	benedekfű
<i>Carvi fructus</i>	<i>Carum carvi</i> L.	(konyha)kömény
<i>Caryophylli flos</i>	<i>Syzygium aromaticum</i> (L.) Merr. et Perry	szegfűszeg(fa)
<i>Catharanti rosei herba</i>	<i>Catharanthus roseus</i> (L.) G. Don	rózsametég
<i>Centaurii herba</i>	<i>Centaurium minus</i> Moench	kis ezerjófű
<i>Chelidonii herba</i>	<i>Chelidonium majus</i> L.	vérehulló fecskefű
<i>Chelidonii radix</i>	<i>Chelidonium majus</i> L.	vérehulló fecskefű
<i>Chinae cortex</i>	<i>Cinchona pubescens</i> Vahl	vörös kínafa
<i>Cichorii radix</i>	<i>Cichorium intybus</i> L.	katángkóró
<i>Cichorii folium</i>	<i>Cichorium intybus</i> L.	katángkóró
<i>Cinnamomi cortex</i>	<i>Cinnamomum aromaticum</i> Nees	kínai fahéjfa

Drog	Anyanövény	
<i>Cocae folium</i>	<i>Erythroxylon coca</i> Lam.	kokacserje
<i>Colchici tuber</i>	<i>Colchicum autumnale</i> L.	őszi kikerics
<i>Colophonium</i>	<i>Pinus sylvestris</i> L., <i>P. nigra</i> L.	erdei és fekete fenyő
<i>Coriandri fructus</i>	<i>Coriandrum sativum</i> L.	koriander
<i>Crataegi folium cum flore</i> (= <i>summitas</i>)	<i>Crataegus monogyna</i> Jacq. <i>C. oxyacantha</i> L.	egybibés és kétbibés galagonya
<i>Curare</i>	<i>Chondrodendron tomentosum</i> Ruiz et Pavon <i>Strychnos toxifera</i> Benth.	tubokuráre Kalabas-kuráre
<i>Dioscoreae tuber</i>	<i>Dioscorea mexicana</i> Scheidw.	jamszgyökér
<i>Droserae herba</i>	<i>Drosera rotundifolia</i> L.	kereklevelű harmatfű
<i>Echinaceae radix</i>	<i>Echinacea purpurea</i> (L.) Moench <i>E. angustifolia</i> DC. <i>E. pallida</i> (Nutt.) Nutt.	piros kasvirág keskenylevelű kasvirág halvány kasvirág
<i>Ephedrae herba</i>	<i>Ephedra dystachia</i> L.	csikófark
<i>Epilobii herba</i>	<i>Epilobium parviflorum</i> Schreb. <i>E. roseum</i> Schreb.	kisvirágú füzike rózsás füzike
<i>Equiseti herba</i>	<i>Equisetum arvense</i> L.	mezei zsurló
<i>Eucalypti folium</i>	<i>Eucalyptus globulus</i> Labill.	eukaliptusz
<i>Euphrasiae herba</i>	<i>Euphrasia rostkoviana</i> Hayne	orvosi szemvidító
<i>Farfarae folium</i>	<i>Tussilago farfara</i> L.	martilapu
<i>Farfarae flos</i>	<i>Tussilago farfara</i> L.	martilapu
<i>Filicis maris rhizoma</i>	<i>Dryopteris filix-mas</i> (L.) Schott	erdei pajzsika
<i>Foeniculi fructus</i>	<i>Foeniculum vulgare</i> Mill.	édesszömény
<i>Fragariae folium</i>	<i>Fragaria vesca</i> L.	erdei szamóca
<i>Frangulae cortex</i>	<i>Frangula alnus</i> Mill.	kutyabenge
<i>Fumariae herba</i>	<i>Fumaria officinalis</i> L.	orvosi füstike
<i>Galegae herba</i>	<i>Galega officinalis</i> L.	kecskeruta
<i>Galla</i>	<i>Quercus infectoria</i> Olivier	kurdisztáni tölgy
<i>Gei radix et rhizoma</i>	<i>Geum urbanum</i> L.	erdei gyömbérgyökér
<i>Gentianae radix</i>	<i>Gentiana lutea</i> L.	sárga tárnics
<i>Ginkgo bilobae folium</i>	<i>Ginkgo biloba</i> L.	ginkgó, páfrányfenyő
<i>Ginseng radix</i>	<i>Panax ginseng</i> C. A. Mey.	ginszeng
<i>Hederæ helicis folium</i>	<i>Hedera helix</i> L.	borostyán
<i>Hennae (Lawsoniae) folium</i>	<i>Lawsonia inermis</i> L.	henna
<i>Herniariae herba</i>	<i>Herniaria glabra</i> L. <i>Herniaria hirsuta</i> L.	kopasz porcikafű borzas porcikafű
<i>Hippocastani semen</i>	<i>Aesculus hippocastanum</i> L.	vadgesztenye
<i>Hippocastani folium</i>	<i>Aesculus hippocastanum</i> L.	vadgesztenye
<i>Hippocastani cortex</i>	<i>Aesculus hippocastanum</i> L.	vadgesztenye
<i>Hyosciami folium</i>	<i>Hyoscyamus niger</i> L.	bolondító beléndek
<i>Hyperici herba</i>	<i>Hypericum perforatum</i> L.	lyukaslevelű orbáncfű
<i>Hyssopi herba</i>	<i>Hyssopus officinalis</i> L.	izsóp
<i>Ipecacuanhae radix</i>	<i>Cephaelis ipecacuanha</i> Brot.	ipekakuána
<i>Juglandis folium</i>	<i>Juglans regia</i> L.	pompás dió

Drog	Anyanövény	
<i>Juniperi fructus</i>	<i>Juniperus communis</i> L.	boróka
<i>Laburni semen</i>	<i>Laburnum anagyroides</i> Medic.	aranyeső
<i>Lavandulae flos</i>	<i>Lavandula angustifolia</i> Mill.	levendula
<i>Lawsoniae (Hennae) folium</i>	<i>Lawsonia inermis</i> L.	henna
<i>Levistici radix</i>	<i>Levisticum officinale</i> Koch	lestyán
<i>Lini semen</i>	<i>Linum usitatissimum</i> L.	len
<i>Liquiritiae radix</i>	<i>Glycyrrhiza glabra</i> L.	édesgyökér
<i>Lobeliae herba</i>	<i>Lobelia inflata</i> L.	lobélia
<i>Lupuli strobulus</i>	<i>Humulus lupulus</i> L.	komló
<i>Majoranae herba</i>	<i>Origanum majorana</i> L.	majoranna
<i>Marrubii herba</i>	<i>Marrubium vulgare</i> L.	pemetefű
<i>Matricariae flos</i>	<i>Matricaria recutita</i> L.	kamilla, orvosi székfű
<i>Meliloti herba</i>	<i>Melilotus officinale</i> (L.) Lam.	orvosi somkóró
<i>Melissae folium</i>	<i>Melissa officinalis</i> L.	orvosi citromfű
<i>Menthae crispae folium</i>	<i>Mentha spicata</i> L. convar. <i>crispa</i> (Benth.) Mansf.	fodormenta
<i>Menthae piperitae folium</i>	<i>Mentha x piperita</i> (L.) Huds.	borsosmenta
<i>Millefolii herba</i>	<i>Achillea millefolium</i> L.	közönséges cickafark
<i>Myrtilli folium</i>	<i>Vaccinium myrtillus</i> L.	fekete áfonya
<i>Myrtilli fructus</i>	<i>Vaccinium myrtillus</i> L.	fekete áfonya
<i>Nicotianae folium</i>	<i>Nicotiana tabacum</i> L.	dohány
<i>Oleum ricini</i>	<i>Ricinus communis</i> L.	ricinus
<i>Ononidis radix</i>	<i>Ononis spinosa</i> L.	tövises iglice
<i>Origani herba</i>	<i>Origanum vulgare</i> L.	szurokfű, oregánó
<i>Papaveris caput</i>	<i>Papaver somniferum</i> L.	mák
<i>Petasitidis folium</i>	<i>Petasites hybridus</i> (L.) G.M.Sch.	vörös acsalapu
<i>Phaseoli legumen</i>	<i>Phaseolus vulgaris</i> L.	bab
<i>Physostigmae semen</i>	<i>Physostigma venenosum</i> Balf.	kalabárbab
<i>Plantaginis lanceolatae folium</i>	<i>Plantago lanceolata</i> L.	lándzsás útifű
<i>Podophylli rhizoma</i>	<i>Podophyllum peltatum</i> L.	amerikai tojásbogyó
<i>Primulae radix</i>	<i>Primula veris</i> Huds. <i>P. elatior</i> (L.) Hill. <i>P. vulgaris</i> Huds.	tavaszi kankalin sudár kankalin szártalan kankalin
<i>Pyrethri flos</i>	<i>Chrysanthemum cinerariifolium</i> (Trev.) Vis.	rovarporvirág
<i>Quercus cortex</i>	<i>Quercus petraea</i> (Matt.) Liebl. <i>Quercus robur</i> L.	kocsánytalan és kocsányos tölgy
<i>Rauwolfiae radix</i>	<i>Rauwolfia serpentina</i> (L.) Benth. Et Hook.	indiai vérnyomáscserje
<i>Rhei rhizoma</i>	<i>Rheum palmatum</i> L.	kínai rebarbara
<i>Ribis nigri folium</i>	<i>Ribes nigrum</i> L.	fekete ribiszke
<i>Rosae petalum</i>	<i>Rosa gallica</i> L.	parlagi rózsza
<i>Rosmarini folium</i>	<i>Rosmarinus officinalis</i> L.	rozsmaring
<i>Salicis cortex</i>	<i>Salix alba</i> L. <i>S. daphnoides</i> Vill. <i>S. fragilis</i> L. <i>S. purpurea</i> L.	fehér fűz boroszlánlevelű fűz csörege-fűz csigolyafűz

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<i>Salviae folium</i>	<i>Salvia officinalis</i> L.	orvosi zsálya
<i>Sambuci flos</i>	<i>Sambucus nigra</i> L.	fekete bodza
<i>Saponariae albae radix</i>	<i>Gypsophila paniculata</i> L.	buglyos fátolvirág
<i>Saponariae rubrae radix</i>	<i>Saponaria officinalis</i> L.	orvosi szappanfű
<i>Sarothamni scoparii herba</i>	<i>Sarothamnus scoparius</i> (L.) Wimm. ex W.D.J. Koch	seprőzanót
<i>Secale cornutum</i>	<i>Claviceps purpurea</i> (Fr.) Tul.	anyarozs
<i>Sennae folium</i>	<i>Senna alexandrina</i> Mill.	szenna, anyalevél
<i>Sennae fructus</i>	<i>Senna alexandrina</i> Mill.	szenna, anyalevél
<i>Serpylli herba</i>	<i>Thymus serpyllum</i> L.	mezei kakukkfű
<i>Silybi mariae fructus</i>	<i>Silybum marianum</i> (L.) Gärtn.	máriatövis
<i>Sinapis albae semen</i>	<i>Sinapis alba</i> L.	fehér mustár
<i>Sinapis nigrae semen</i>	<i>Brassica nigra</i> (L.) Koch	fekete mustár
<i>Solani herba</i>	<i>Solanum nigrum</i> L.	fekete csucsor
<i>Solidaginis virgaureae herba</i>	<i>Solidago virgaurea</i> L.	közönséges aranyvessző
<i>Spireae flos</i>	<i>Filipendula ulmaria</i> (L.) Maxim.	réti legyezőfű
<i>Stoechados flos</i>	<i>Helichrysum arenarium</i> (L.) Moench	homoki szalmagyopár
<i>Stramonii folium</i>	<i>Datura stramonium</i> L.	csattanó maszlag
<i>Strychni semen</i>	<i>Strychnos nux-vomica</i> L.	sztrichninfá, ebvézsmag
<i>Symphyti radix</i>	<i>Symphytum officinale</i> L.	fekete nádálytő
<i>Tanaceti herba</i>	<i>Tanacetum vulgare</i> L.	gilisztaűző varádcis
<i>Taraxaci radix</i>	<i>Taraxacum officinale</i> Weber ex Wiggers	pongyola pitypang
<i>Taraxaci herba</i>	<i>Taraxacum officinale</i> Weber ex Wiggers	pongyola pitypang
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<i>Tiliae flos</i>	<i>Tilia cordata</i> Mill. <i>Tilia platyphyllos</i> Scop.	kislevelű hárs nagylevelű hárs
<i>Tormentillae rhizoma</i>	<i>Potentilla erecta</i> (L.) Rauschel	vérontófű
<i>Urticae folium</i>	<i>Urtica dioica</i> L. <i>U. urens</i> L.	nagy csalán apró csalán
<i>Urticae radix</i>	<i>Urtica dioica</i> L. <i>U. urens</i> L.	nagy csalán apró csalán
<i>Uvae ursi folium</i>	<i>Arctostaphylos uva-ursi</i> (L.) Spreng.	medveszőlő
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<i>Vincae minoris herba</i>	<i>Vinca minor</i> L.	kis télizöld meténg
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Felhasznált irodalom

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