

## Preparations

**Proprietary Preparations** (details are given in Part 3)

**Cz.:** Soledum†; **Ger.:** Soledum; Soledum Balsam; **Ital.:** Fluorespir†.

**Multi-ingredient:** **Arg.:** Aseptobron; Aseptobron Ampicillin†; Aseptobron N; Atomo Desinflamante; Atomo Desinflamante Familiar; Atomo Desinflamante G; Bano Liquido con Eucalyptol†; Bronco Etersan; Di-Neu-mobron; Listerine Clásico; Listerine Cool Mint; Listerine Fresh Burst; No-Tos Adultos; Otorinolazol†; Referan Caramelos Expectorantes; **Austral.:** Bopisto's Vapourising Ointment; Euky Bearub; Methyl Salicylate Ointment Compound†; Nasex; Spray-Tish Menthol; Tixily Chest Rub†; Vasylox†; Vicks Sinex; **Austria:** Rhinospray Plus; Rowachol; Rowatex; Vick Sinex; **Belg.:** Balsolase Expectorans; Eucalyptine; Eucalyptine Le Brun†; Eucalyptine Pholcodine; Eucalyptine Pholcodine Le Brun†; Inhalene†; Inhalo Rhinathiol; Inopectol; Olbas; Pulmex; Pulmex Baby; **Braz.:** Algice; Angino-Rub; Baldin-CE†; Bromil; Broncopinol†; Canfomenol†; Eucalyptan†; Fluomint; Gargot-an†; Gripanil†; Griptomatine†; Griponia†; Gripsay; Inhadrina†; Inhalante Ya-tropan; Killgrip†; Mentalol†; Ozonyl; Ozonyl Aquoso; Ozonyl Expectorante; Pastilhas Valda; Pectal†; Penetro; Quelodin†; Tabletes Valda†; Tetrapulmo; Transpulmin; Transpulmin Balsamo; Transpulmin†; Tripulmin Balsamico†; Tripulmin†; Valda†; Vick Pastilhas; **Canada:** Alsirub†; Antiseptic Mouthwash; Arthrillex; Cal Mo Dol; Carboseptol†; Demo-Cineol; Listerine; Listerine Antiseptic Tartar Control; Mielcol; Mouthwash Antiseptic & Gargle†; Physio-Rub; Thermo Rub; Valda; **Chile:** Listerine; Oralfresh Citrus; Oralfresh Clásico; Rowatex; **Cz.:** Biocapitol S†; Rowachol; Rowatex; **Dennm.:** Otrivin Menthol; **Fin.:** Otrivin Menthol; **Fr.:** Biola; Dinacode avec codeine†; Dinacode†; Essence Algerienne; Eucalyptine; Eucalyptine Le Brun; Hexap-neumine; Listerine; Listerine protection dents et gencives; Neo-Codion†; Pectoderma†; Pholcones Bismuth; Pulmofluid Simple; Valda; Vegebom; **Ger.:** Eufimenth-Balsam N†; Rhinospray Plus; Rhinospray sensitiv; Rowachol; Rowachol comp†; Rowachol-Digestiv; Rowatex; Transpulmin Balsam; **Gr.:** Cedovix; Faragel-Forte; **Hong Kong:** Biocapitol†; Cool Mint Listerine; Listerine; Listerine Tartar Control; Listerine Teeth and Gum Defence; Neo-Rowachol; Neo-Rowatex; Rowachol; Rowatex; Valda†; **Hung.:** Rhinospray Plus; Rowachol; Rowatex; **India:** Dristan Nasal Drops; Endrine; Endrine Mild; Karvol Plus; Sinarest Vapocaps; **Indon.:** Dactyle†; Listerine; Listerine Coolmint; **Irl.:** Rowachol; Rowatex; Valda†; **Israel:** Gargol; Rowachol; Rowatex; **Ital.:** Abiostil; Balsamico; Balta Intimo†; Calypol; Lipobalsamo; Listerine Fresh Citrus; Listerine Tartar Control; Padorinovit; Pastiglie Valda†; Pulmarin; Pumiene Vapo; Ringott Eucalypto-Fher; Rinovit; Transpulmina Gola; Transpulmina Tosse; Vicks Baby Balsam†; Vicks Sinex; **Malaysia:** Listerine†; Purporent†; Rowachol; Rowatex; **Mex.:** Andocicli-na Balsamica†; Bronkitose Mielmon; Cholex; Eucalin†; Guayalin; Guayalin-Plus†; Iodex Cristal; Listerine; Numonyl†; **Neth.:** Balsolase Compositum; Balsolase-E; Otrivin Menthol; Rhinospray met menthol; **NZ:** Listerine; Listerine Tartar Control; Tixily Chest Rub; Vicks Sinex; **Philipp.:** Kamillosan M; Listerine Coolmint; Listerine Fresh Citrus; Listerine Freshburst; Listerine Original; Listerine Tartar Control; Listerine Teeth & Gum Defense; Rhea Superscent Oil; Rowachol; Rowatex; Transpulmin Balsam; **Pol.:** Rowachol; Rowatex; Salvasept; Terpichol; **Port.:** Listerine†; Rectopulmo Adultos†; Rectopulmo Infantil†; Transpulmina; Valda†; **Rus.:** Nazol Advance (Назол Адванс); **S.Afr.:** Respiniffers; Woodwards Inhalant; **Singapore:** Listerine; Listerine Cool Mint; Listerine Fresh Burst; Listerine Tartar Control; **Spain:** Balsamo Knepp†; Broncovital†; Brota Rectal Balsamico; Calton Balsamico; Caramelos Agua del Carmen†; Diminex Antitusigeno; Doctom-til†; Dolmitin; Eucalyptospirine†; Eupnol; Mentobox; Pastillas Juanola†; Pastillas Pectoral Kely; Pioris; Pulmofoxa; Retarpen Balsamico†; Rinobanedi; Rowachol; Rowanefrin; Sinus Inhalaciones; Tifell†; Trophires†; Vitavox Pastillas†; **Swed.:** Otrivin Menthol; **Switz.:** Nasobol N; Neo-Bronchol; Onguent aux herbes Keller; Rectoseptal-Neo Bismuth; Rectoseptal-Neo simple; Resorbane; Rowachol; Sedasept†; Sedotussin†; Transpulmin N; Vicks Sinex; **Thail.:** Dexalin; Hot Ize; Olympic Balm†; Rowachol; Rowatex; Sore Mouth Gel; **Turk.:** Bugumentol; Bugusan; Buguseptil; Gelocaps; Mentimol; Mentolin; Mentoseptol; Otaci Oka Mentol; Otaci Salvia; Rinolar; Sul-farhin; **UK:** Dubam; Listerine Antiseptic Mouthwash; Lockets; Nostroline; Nowax; Rowachol; **USA:** Babee; BFI; Listerine; Pfeiffer's Cold Sore; Rid-a-Pain; Saratoga; Sting-Eze; **Venez.:** Derpinol†; Robitussin Caramelos†; Rowachol; Rowatex; Transmin.

## Cinnamedrine (USAN, rINN) ⊗

Cinnamedrina; Cinnamédrine; Cinnamedrinum; N-Cinnamylephedrine.  $\alpha$ -{[1-[Methyl(3-phenyl-2-propenyl)amino]ethyl]benzenemethanol.

Циннамедрин

$C_{19}H_{23}NO = 281.4$ .  
CAS — 90-86-8.

## Cinnamedrine Hydrochloride (rINN) ⊗

Cinnamédrine, Chlorhydrate de; Cinnamedrini Hydrochloridum; N-Cinnamylephedrine Hydrochloride; Hidrocloruro de ciname-drina.

Циннамедрина Гидрохлорид

$C_{19}H_{23}NO.HCl = 317.9$ .

## Profile

Cinnamedrine hydrochloride is reported to have sympathomimetic actions resembling those of ephedrine. It was formerly used with analgesics in the symptomatic relief of dysmenor-rhoea.

## Preparations

**Proprietary Preparations** (details are given in Part 3)

**Multi-ingredient:** **Chile:** Tapal-2†.

## Cinnamon

Canela; Canela do Ceilão; Cannelle dite de ceylan; Ceylon Cinnamon; Ceylonzint; Cinamonu žievė; Cinnam; Cinnamomi cortex; Cinnamon Bark; Fahéj; Kanel; Kaneli; Skořicovníková kůra; Zimt.

**Pharmacopoeias.** In *Eur.* (see p.vii).

**Ph. Eur. 6.2** (Cinnamon). The dried bark of the shoots of coppiced trees of *Cinnamomum zeylanicum* containing not less than

1.2% w/w of essential oil. It has a characteristic, aromatic odour. Protect from light.

The BP 2008 directs that when Powdered Cinnamon is prescribed or demanded, material containing not less than 1.0% w/w of essential oil shall be dispensed or supplied.

## Profile

Cinnamon is carminative and slightly astringent and is included in some preparations for gastrointestinal disorders. It is also used as a flavour. It is a source of cinnamoyl oil (below).

## Preparations

**Ph. Eur.:** Cinnamon Tincture;

**USNF 26:** Compound Cardamom Tincture.

**Proprietary Preparations** (details are given in Part 3)

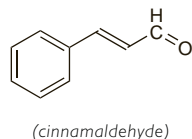
**Multi-ingredient:** **Austria:** Brady's-Magentropfen; China-Eisenwein; Marazeller; Montana; **Braz.:** Balsamo Branco; Paratonico; **Cz.:** Blahungstee N†; Dr Theiss Rheuma Creme†; Dr Theiss Schwedenbitter; Klosterfrau Melisana; Magen- und Darmtee N†; Passedan; **Fr.:** Elixir Grez†; Quintonine; **Ger.:** Amara-Pascoe; Doppelherz Melissegeist†; Gastrosecur†; Majocarin forte†; Melissegeist; Montana N; Schwedentrunk Ellixir; Sedovent; **India:** Carmicide; **Israel:** Davilla; **Ital.:** Assenzio (Specie Composta)†; Bi-ophase Shampoo; Dam; **Jpn.:** The Guard Seichojo; **Pol.:** Reumpapaj; **Rus.:** Doppelherz Melissa (Доппельгерц Мелисса); Himcolin (Химколин); **S.Afr.:** Melissegeist; Rooilavental; Spiritus Contra Tussim Drops; **Spain:** Agua del Carmen; Vigortone; **Switz.:** Alcoolat de Melisse†; Baume†; Odontal; Tisane pour les problemes de prostate; **Thail.:** Carmicide†; Mel-oids; **UK:** Melissa Comp.; **Venez.:** Aftil.

## Cinnamon Oil

Aetheroleum Cinnamomi Zeylanici; Canela, aceite esencial de; Cinnam. Oil; Esencia de Canela; Essence de Cannelle de Ceylan; Oleum Cinnamomi; Zimtol.

Кориичное Масло

CAS — 8015-91-6.



**Pharmacopoeias.** *Eur.* (see p.vii) includes oil from both the bark and the leaf of *Cinnamomum zeylanicum* (*C. verum*).

Cinnamon oil is also used as the name for cassia oil in some countries. For example, *Jpn* under the title Cinnamon Oil specifies oil from either *Cinnamomum cassia* or *Cinnamomum zeylanicum*.

## Cinnamon Bark Oil

Cannelle dite de ceylan, huile essentielle de; Ceiloniniy cinamonu žievės eterinis aliejus; Ceylon Cinnamon Bark Oil; Ceyloni fahéjféleg-alaj; Cinnamomi zeylanici corticis aetheroleum; Cinnamomi Zeylanicii Corticis Aetheroleum; Kaneliöljy; Ceylon-in; Kanelolja, ceylonesisk; Silice kury skořicovníku cejlonského.

Кориичное Масло Из Кору

**Pharmacopoeias.** In *Eur.* (see p.vii) and *Jpn*.

**Ph. Eur. 6.2** (Cinnamon Bark Oil, Ceylon). The oil obtained by steam distillation of the bark of the shoots of *C. zeylanicum* (*C. verum*). It contains 55 to 75% of cinnamaldehyde and less than 7.5% of eugenol. A clear, mobile, light yellow liquid becoming reddish over time, with a characteristic odour of cinnamaldehyde. Store in well-filled airtight containers. Protect from light and heat.

## Cinnamon Leaf Oil

Cannelier dit de ceylan (feuille de), huile essentielle de; Ceiloniniy cinamonu lapu eterinis aliejus; Ceyloni fahéjfélevél-olaj; Cinnamomi zeylanici folii aetheroleum; Cinnamomi Zeylanici Folii Etheroleum; Kanelbladolja, ceylonesisk; Kanelinlehtiöljy; Ceylonin; Ol. Cinnam. Fol; Silice listu skořicovníku cejlonského.

Кориичное Масло Из Листьев

**Pharmacopoeias.** In *Eur.* (see p.vii).

**Ph. Eur. 6.2** (Cinnamon Leaf Oil, Ceylon). The oil obtained by steam distillation of the leaves of *C. zeylanicum* (*C. verum*). It contains less than 3% of cinnamaldehyde, and 70 to 85% of eugenol. A clear, mobile, reddish brown to dark brown liquid, with a characteristic odour of eugenol. Store in well-filled airtight containers. Protect from light and heat.

## Profile

Cinnamon bark oil has properties and uses similar to those of cinnamon (above). It is also included in preparations for musculoskeletal and joint disorders and for respiratory-tract disorders. There have been a number of reports of hypersensitivity to cinnamaldehyde and other constituents of cinnamon oil. Cinnamon leaf oil has also been used, although the amounts of eugenol and cinnamaldehyde are different from the bark oil. Cinnamon bark or leaf oil is also used in aromatherapy.

## Preparations

**BP 2008:** Aromatic Cardamom Tincture; Compound Cardamom Tincture; Concentrated Cinnamon Water; Tolu-flavour Solution.

**Proprietary Preparations** (details are given in Part 3)

**Multi-ingredient:** **Austral.:** Gartech; **Austria:** Tiger Balsam Rot; **Braz.:** Ovarisedan†; **Canada:** Tiger Balm Red; Tiger Balm Ultra; **Chile:** Agua del Carmen; Agua Melisa Carminativa; **Cz.:** Amol; Tiger Balm Rot†; **Fr.:** Aromasol; Gouttes aux Essences; Resistim; Stomargil; Tigridol; **Ger.:** Amol Heilkräutergeist N; esto-gast; Melissegeist; Salviathymol N; **Gr.:** Tiger Balm; **Hong Kong:** Magesto; **Hung.:** Fagilort†; **India:** Bestozyme; Catzyme-P; Digeplex; Sensur; Vitazyme; **Indon.:** Corsabalm; **Israel:** Karvol; **Ital.:** Relaxcol; Valda Propoli; **NZ:** Karvol; **Pol.:** Amol; Argol Essenza Balsamica; Argol Grip; Argol Rheuma; Aromatol; Carmolis; **Rus.:** Efcamon (Эфкамон); **S.Afr.:** Enterodyne; Karvol; **Singapore:** Karvol; **Spain:** Depurativo Rich-elet; **Switz.:** Baume de Chine Temple of Heaven blanc; Carmol; Pirom; Sansilla; Spagyrom; **Thail.:** Magesto; Mesto-Of; **UK:** Slippery Elm Stomach Tablets.

## Citicoline (pINN)

CDP-Choline; Citicolina; Citicolinum; Citidoline; Cytidine Diphosphate Choline; Cytidine diphosphocholine; IP-302. Choline cytidine-5'-pyrophosphate.

ЦИТИКОЛИН

$C_{14}H_{26}N_4O_{11}P_2 = 488.3$ .

CAS — 987-78-0.

ATC — N06BX06.

ATC Vet — QN06BX06.

## Citicoline Sodium (USAN, pINN)

Citicolina sódica; Citicoline Sodique; Natrii Citicolinum. Cytidine 5'-{sodium *P*-[2-(trimethylammonio)-ethyl] hydrogen diphosphate}, inner salt.

Натрий Цитиколлин

$C_{14}H_{25}N_4NaO_{11}P_2 = 510.3$ .

CAS — 33818-15-4.

**Pharmacopoeias.** In *Chin*.

## Profile

Citicoline is a derivative of choline and cytidine that is involved in the biosynthesis of lecithin. It is claimed to increase blood flow and oxygen consumption in the brain and has been given in the treatment of cerebrovascular disorders (including ischaemic stroke, p.1185), parkinsonism, and head injury. It is given by intravenous or intramuscular injection in doses of up to 1 g daily or orally in divided doses of 200 to 600 mg daily.

Citicoline sodium has also been used.

**Cerebrovascular disorders.** Citicoline has shown some short- to medium-term benefit for disturbances of memory and behaviour associated with cerebrovascular disorders.<sup>1</sup>

1. Fioravanti M, Yanagi M. Cytidinediphosphocholine (CDP choline) for cognitive and behavioural disturbances associated with chronic cerebral disorders in the elderly. Available in The Cochrane Database of Systematic Reviews; Issue 2. Chichester: John Wiley; 2005 (accessed 09/05/06).

**Strabismus.** Experimental studies have shown that centrally-acting drugs such as citicoline may improve vision in patients with amblyopia (see Strabismus, p.1874). However, their role in clinical practice remains to be established.<sup>1</sup>

1. Chatzistefanou KI, Mills MD. The role of drug treatment in children with strabismus and amblyopia. *Paediatr Drugs* 2000; 2: 91–100.

## Preparations

**Proprietary Preparations** (details are given in Part 3)

**Arg.:** Complegel Novo; Neuriclor†; Nimo-Somazina; Reagin; Somazina; **Austria:** Startonyl; **Braz.:** Somazina; **Chile:** Somazina; **Fr.:** Rexort†; **Indon.:** Brainact; Brain; Cibren; Lanolin; Neulin; Nicholin; Soholin; Takelin; **Ital.:** Brassel; Cebrotan; Cidilin; Citifar†; Citifan†; Difosfocin; Flussorex; Gerolin; Kemodyn†; Link†; Logan; Neurex; Neuroton; Nicholin; Nicolsint; Sinkron; Sintodlar; **Jpn.:** Nicholin; **Mex.:** Onquevit; Somazina; **Philipp.:** Nicholin; Somazina; **Port.:** Hipercol; Somazina; Startonyl; Trausan; **Spain:** Numatol; Somazina; **Thail.:** Somazina; **Venez.:** Somazina.

**Multi-ingredient:** **Arg.:** Neuridor Vascular†; Nimodiat Plus; Nimoreagin; Nivas Plus; Reagin Vascular.

## Citolone (rINN)

BO-714; Citilona; Citilonom. *N*-(Perhydro-2-oxo-3-thienyl)acetamide.

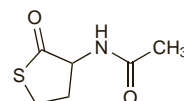
ЦИТИОЛОН

$C_6H_9NO_2S = 159.2$ .

CAS — 1195-16-0.

ATC — A05BA04.

ATC Vet — QA05BA04.



The symbol † denotes a preparation no longer actively marketed

The symbol ⊗ denotes a substance whose use may be restricted in certain sports (see p.vii)

**Profile**

Citronellone has been used in the treatment of hepatic disorders and as a mucolytic. Hypersensitivity reactions have been reported.

## ♦ References.

- de Barrio M, *et al*. Recurrent fixed drug eruption caused by citronellone. *J Investig Allergol Clin Immunol* 1997; 7: 193-4.

**Preparations**

**Proprietary Preparations** (details are given in Part 3)

**Spain:** Mucorex†.

**Multi-ingredient:** **Spain:** Hubergrip†.

**Citral**

Cytral, 3,7-Dimethyl-2,6-octadienal.

$C_{10}H_{16}O = 152.2$ .

CAS — 5392-40-5 (citral); 141-27-5 (geranial); 106-26-3 (neral).

**Profile**

Citral is a terpenoid constituent of lemon oil (p.2332), lemon grass oil (p.2333), melissa oil (p.2339), and many other essential oils; it exists as 2 isomers, *trans*-citral (geranial) and *cis*-citral (neral). It has been used in preparations for respiratory-tract, musculoskeletal, and other disorders. It is also used as a flavour and perfume.

**Hypersensitivity.** References.

- Heydorn S, *et al*. Citral a fragrance allergen and irritant. *Contact Dermatitis* 2003; 49: 32-6.

**Preparations**

**Proprietary Preparations** (details are given in Part 3)

**Multi-ingredient:** **Fr.:** Bronchorectine au Citral; **Switz.:** Carmol Plus†.

**Anhydrous Citric Acid**

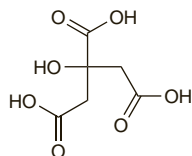
Acidum Citricum; Acidum citricum anhydricum; Cítrico anhidro, ácido; Citrinų rūgštis, bevandenė; Citrique (acide) anhydre; Citronensäure; Citronsyra, vattenfri; E330; Kyselina citronová; Sitruunahappo, vedetön; Vízmentes citromsav. 2-Hydroxypropane-1,2,3-tricarboxylic acid.

$C_6H_8O_7 = 192.1$ .

CAS — 77-92-9.

ATC — A09AB04.

ATC Vet — QA09AB04.



**Pharmacopoeias.** In *Eur.* (see p.vii), *Int.*, *Jpn.* and *US*.

**Ph. Eur. 6.2** (Citric Acid, Anhydrous). Colourless crystals or granules or a white or almost white crystalline powder. Very soluble in water; freely soluble in alcohol.

**USP 31** (Anhydrous Citric Acid). Colourless, translucent crystals, or a white, granular to fine, crystalline powder. Soluble 1 in 0.5 of water, 1 in 2 of alcohol, and 1 in 30 of ether. Store in airtight containers.

**Citric Acid Monohydrate**

Ácido del Limón; Acidum citricum monohydricum; Cítrico monohidratado, ácido; Citrinų rūgštis monohidratas; Citrique (acide) monohydraté; Citromsav-monohidrat; Citronsyramonohydrat; Hydrous Citric Acid; Kwas cytrynowy jednowodny; Kyselina citronová monohydrát; Sitruunahappomonohydraatti.

$C_6H_8O_7 \cdot H_2O = 210.1$ .

CAS — 5949-29-1.

ATC — A09AB04.

ATC Vet — QA09AB04.

**Pharmacopoeias.** In *Chin.*, *Eur.* (see p.vii), *Int.*, *Jpn.*, *US*, and *Viet*.

**Ph. Eur. 6.2** (Citric Acid Monohydrate). Efflorescent, colourless crystals or granules, or a white or almost white crystalline powder. Very soluble in water; freely soluble in alcohol. Store in airtight containers.

**USP 31** (Citric Acid Monohydrate). Colourless, translucent crystals, or a white, granular to fine, crystalline powder. It is efflorescent in dry air. Soluble 1 in 0.5 of water, 1 in 2 of alcohol, and 1 in 30 of ether. Store in airtight containers.

**Adverse Effects and Precautions**

Citric acid ingested frequently or in large quantities may cause erosion of the teeth and have a local irritant action.

**Interactions**

**Aluminium hydroxide.** Intestinal absorption of aluminium ions may be enhanced by oral doses of citrates. Caution is needed in patients with chronic renal disease receiving aluminium hy-

droxide as a phosphate binder who are given a calcium supplement in the form of effervescent tablets that contain citric acid.<sup>1</sup>

- Mees EJD, Başçı A. Citric acid in calcium effervescent tablets may favour aluminium intoxication. *Nephron* 1991; 59: 322.

**Uses and Administration**

Citric acid is used in effervescing mixtures; the monohydrate is used in the preparation of effervescent granules.

Citric acid monohydrate is used as a synergist to enhance the effectiveness of antioxidants.

Preparations containing citric acid are used in the management of dry mouth (p.2140) and to dissolve renal calculi, alkalise the urine, and prevent encrustation of urinary catheters. Citric acid is an ingredient of citrated anticoagulant solutions. Citric acid has also been used in preparations for the treatment of coughs, gastrointestinal disturbances, and metabolic acidosis.

**Preparations**

**BP 2008:** Lemon Syrup; Paediatric Compound Tolu Linctus; Paediatric Simple Linctus; Potassium Citrate Mixture; Simple Linctus.

**Ph. Eur.:** Anticoagulant Acid-Citrate-Glucose Solutions (ACD); Anticoagulant Citrate-Phosphate-Glucose Solution (CPD).

**USP 31:** Anticoagulant Citrate Dextrose Solution; Anticoagulant Citrate Phosphate Dextrose Adenine Solution; Anticoagulant Citrate Phosphate Dextrose Solution; Citric Acid, Magnesium Oxide, and Sodium Carbonate Irrigation; Magnesium Carbonate and Citric Acid for Oral Solution; Magnesium Carbonate, Citric Acid, and Potassium Citrate for Oral Solution; Magnesium Citrate Oral Solution; Potassium and Sodium Bicarbonates and Citric Acid Effervescent Tablets for Oral Solution; Potassium Citrate And Citric Acid Oral Solution; Sodium Citrate and Citric Acid Oral Solution; Tricrates Oral Solution.

**Proprietary Preparations** (details are given in Part 3)

**Gr.:** Citrolithin; **India:** Revidi; **Mex.:** Lipocinetic; **Pol.:** Citrolyt; **S.Afr.:** Crystacit; **Venez.:** Policitra.

**Multi-ingredient:** **Arg.:** Alkal; Alka-Seltzer Doble Accion; Sal de Fruta Eno; Uvasol; **Austral.:** Alka-Seltzer; Citralite; Citravescant; Duroxal X-Pack†; Eno; Picolax†; Picoprep; Ural; Unikal†; Unicosal†; **Austria:** Alka-Seltzer; Duplotraz Z; Helo-acid; Kalioral; **Belg.:** Alka-Seltzer; **Braz.:** Citrosodine†; Digestem; Regulador Xavier N-2†; Sal de Andrews; Sal de Fruta Eno; Sonisil; **Canada:** Alka-Seltzer; Bromo Madelon; Dicitrate†; Pico-Salax; Chile: Disfruta; Fenokomp 39; Justegas†; Kanacitrin; Sal de Fruta Eno; Summer's Eve Hierbas†; Uroalquino; Yasta; **Cz.:** Alka-Seltzer; Blemaren N; Carbocit; E-Z-Gas†; Herbadent; **Fin.:** Alka-Seltzer; **Fr.:** Alka-Seltzer; Citrocholine; Doculyse; Elixir Grez†; Hepargitol; Omitaine; Sebum AKN; Sphingogel†; **Ger.:** Alka-Seltzer; Banlux Brausetabletten†; Blemaren N; Citropepsin†; Lithurex S†; Pepzitrat; Retterspitz Ausserlich; Retterspitz Innerlich; Uronor†; **Gr.:** E-Z-Gas; Gastrovison†; **Hong Kong:** Alka-Seltzer; Eno†; **Hung.:** Alka-Seltzer; Blemaren N; E-Z-Gas; Magulit†; **India:** Carmicide; Coscopin; Coscopin Plus; Dristan Expectorant; Unisoda; **Indon.:** Koffex for Children; Promethazine Ikapharmindo; **Irl.:** Andrews; Carbex†; Cymalon; Mictal†; **Israel:** E-Z-Gas II; Eno; Unikal; **Ital.:** Alka-Seltzer; Citroepatin; Duogas; Geffer; Lavanda Sofar; **Malaysia:** Alka-Seltzer; Citravescant†; Ezee; Picoprep; Potcit; Ural; **Mex.:** Kaposalt; Lipo Slim N†; Uroclasio NF; **Neth.:** Alka-Seltzer; Gastrogas; **NZ:** Alka-Seltzer; Lemsip Dry Cough†; Picoprep; Ural; **Philipp.:** Alka-Seltzer; **Pol.:** Citropepsin; **Port.:** Alka-Seltzer; Creme Laser Hidrante; Detoxergon; Eno; **Rus.:** Alka-Seltzer (Алка-Зельцер); Blemaren (Блемарен); **S.Afr.:** Adco-Sodasol; Alkalif; Betasoda†; Citro-Soda; Citroclit†; Effersol; Neucid; Quatro-Soda†; Un-Alk; Vicks Cough Syrup; **Singapore:** Alka-Seltzer; Dicitrate; Potcit; **Spain:** Alka-Seltzer; Justegas; Pastillas Antisept Gang L; Sal de Fruta Eno; Sales de Frutas P G; Uralyt Urato; **Swed.:** Alka-Seltzer; Renapur; **Switz.:** Alka-Seltzer; E-Z-Gas II; Pepsi-Chlor†; Siesta-I; **Thai.:** Alka-Seltzer; Carmicide†; **Turk.:** Alka-Seltzer; **UK:** Alka-Seltzer; Alka-Seltzer XS; Allens Junior Cough; Andrews; Carbex; Cymalon; Effercitrate; Eno; Hill's Balsam Chesty Cough for Children; Lemsip Cough & Cold Dry Cough; Potters Children's Cough Pastilles; Resolve; Uniflex G; Uniflex R; Uro-Tainer Solution R; Uro-Tainer Suby G; Zubes Blackcurrant; Zubes Honey & Lemon; **USA:** Alka-Seltzer; Alka-Seltzer Antacid; Alka-Seltzer with Aspirin; Bicitra; Bromo Seltzer Effervescent Granules; Cytra-2; Cytra-3; Cytra-K; Cytra-LC; Extra Strength Alka-Seltzer Effervescent Tablets; Gold Alka-Seltzer; Oracit; Original Alka-Seltzer Effervescent Tablets; Polycitra; Polycitra-K; Polycitra-LC; Renacidin; Sparkles; Zee-Seltzer; **Venez.:** Alka-Seltzer; Eno.

**Citronella Oil**

Citrinžolij eterinis aliejus; Citronela, aceite esencial de; Citronellae aetheroleum; Citronellae Etheroleum; Citronellaölaj; Citronellojla; Citronellová silice; Citronnelle, huile essentielle de; Oleum Citronellae; Sitronellaölj.

**Pharmacopoeias.** In *Eur.* (see p.vii).

**Ph. Eur. 6.2** (Citronella Oil). The oil obtained by steam distillation from the fresh or partially dried aerial parts of *Cymbopogon winterianus*. It contains 30.0 to 45.0% citronellal, 9.0 to 15.0% citronellol, 2.0 to 4.0% citronellyl acetate, less than 2.0% geranial, 20.0 to 25.0% geraniol, 3.0 to 8.0% geranyl acetate, 1.0 to 5.0% limonene, and less than 2.0% neral. A pale yellow to brownish-yellow liquid with a very strong odour of citronellal. Store in well-filled containers. Protect from light.

**Profile**

Citronella oil is used as a perfume and insect repellent. It is also used in aromatherapy. Hypersensitivity has been reported.

**Preparations**

**Proprietary Preparations** (details are given in Part 3)

**Arg.:** Aulo Gelio Repelente; Repelente Rep; **Canada:** Buzz Away†; Druide Insect Repellent†; **Ger.:** Kneipp Beruhigungs-Bad spezial; Schupp's Melissen Ölbad†; **Malaysia:** Moz-Away; **UK:** Mozzie Patch; Natrapel.

**Multi-ingredient:** **Arg.:** Aulo Repelente De Pojos; Repelente Rep; **Austral.:** Apex Repel Natural; **Austria:** Valin Baldrian; **Belg.:** Mouskito Travel Stick; **Canada:** Natrapel; **Cz.:** Amol; **Fr.:** Ysol 206; **Ger.:** esto-gast; Melisengeist; **Indon.:** Corsabalm; **Ital.:** Air Citronella†; Citrosystem; Mistick Verde; **NZ:** Apex Repel Natural; **Pol.:** Carmolis; **S.Afr.:** Melisengeist; No-Bite†; **Switz.:** Baume du Chalet; Novital; Saltrates†; Sansilla; **UK:** Snowfire; **USA:** Treo.

**Clivers**

Amor de hortelano; Cleavers; Galii Aparinis Herba; Galium; Goosegrass.

**Profile**

Clivers is the dried aerial parts of *Galium aparine* (Rubiaceae). It has been used in herbal medicine, mainly as a diuretic.

**Preparations**

**Proprietary Preparations** (details are given in Part 3)

**Multi-ingredient:** **Austral.:** Dermaco; Galium Complex†; Herbal Cleanse†; Uva-Ursi Complex†; **UK:** Antitis; Aqua Ban Herbal; Athera; Backache; Cascade; Gerard House Water Relief Tablets; HealthAid Boldo-Plus; Kas-Bah; Modern Herbals Menopause; Modern Herbals Water Retention†; Psorasolv; Sciargo; Skin Cleansing; Tabritis; Water Naturtabs; Water-shed.

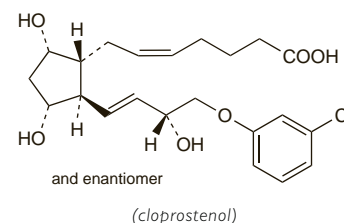
**Cloprostenol Sodium** (BANM, USAN, rINN)

Cloprostenol sódico; Cloprosténol sodique; Cloprostenoli natrium; ICI-80996; Natrii Cloprostenolum. Sodium (±)-(Z)-7-{{(1R,2R,3R,5S)-2-[(E)-(3R)-4-(3-chlorophenoxy)-3-hydroxybut-1-enyl]-3,5-dihydroxycyclopentyl}hept-5-enoate.

Натрий Клопростенол

$C_{22}H_{28}ClNaO_6 = 446.9$ .

CAS — 40665-92-7 (cloprostenol); 55028-72-3 (cloprostenol sodium).



**Pharmacopoeias.** In *BP(Vet)*.

**BP(Vet) 2008** (Cloprostenol Sodium). A white or almost white amorphous hygroscopic powder. Freely soluble in water, in alcohol, and in methyl alcohol; practically insoluble in acetone. Protect from light and moisture.

**Profile**

Cloprostenol is a synthetic analogue of dinoprost (prostaglandin F<sub>2</sub>). The sodium salt is used as a luteolytic in veterinary medicine.

**Clove**

Caryoph.†; Caryophylli flos; Caryophyllum; Clavo; Clou de girofle; Cloves; Cravinho; Cravo-da-Índia; Gewürznelke; Giroflie; Gvazdikéliai; Hřebíčkovcový květ; Kryddnejlika; Mausteneilikka; Szegfűszeg; Tropical Myrtle.

**Pharmacopoeias.** In *Chin.*, *Eur.* (see p.vii), and *Jpn*.

**Ph. Eur. 6.2** (Clove). The whole flower buds of *Syzygium aromaticum* (*Eugenia caryophyllus*), containing not less than 15% v/w of volatile oil, dried until they become reddish-brown, and with a characteristic aromatic odour. Protect from light.

The BP 2008 directs that when Powdered Clove is prescribed or demanded, material containing not less than 12.0% v/w of essential oil shall be dispensed or supplied.

**Profile**

Clove is a carminative and is used as a flavour. It is the source of clove oil (below).

Clove and clove oil have been abused in the form of cigarettes.

**Abuse.** Smoking of cigarettes composed of a mixture of tobacco and cloves is a habit that originated in Indonesia and has spread to the USA. There have been reports of severe and sometimes fatal respiratory illness related to smoking clove cigarettes and there is also evidence from animal studies that clove cigarette smoke and eugenol (the principal constituent of clove oil) have harmful pulmonary effects. The Council on Scientific Affairs of the American Medical Association considers that in addition to the hazards associated with smoking tobacco, clove cigarettes may also produce severe lung injury in certain susceptible individuals and could also induce pulmonary aspiration in healthy individuals due to diminution of the gag reflex produced by the local anaesthetic action of eugenol.<sup>1</sup> The American Academy of Pediatrics has also alerted paediatricians in the USA to clove-cigarette smoking by young people and warned of the risks.<sup>2</sup>

- American Medical Association Council on Scientific Affairs. Evaluation of the health hazard of clove cigarettes. *JAMA* 1988; 260: 3641-4.
- Committee on Substance Abuse. Hazards of clove cigarettes. *Pediatrics* 1991; 88: 395-6.