

# PRODUCT BROCHURE



### Calcium Dobesilate Monohydrate E.P.

MAIN INFO **Chemical Name** Calcium di(2,5 - Dihydroxybenzenesulfonate) monohydrate

> 20123-80-2 CAS No

Vasotropic/Venous Disorder

Structural Formula

**Therapeutic Category** 

Molecular Formula  $C_{12}H_{10}CaO_{10}S_{2}\cdot H_{2}O$ 

Molecular mass

418.4 (anhydrous)

**Appearance** A white or almost white, hygroscopic powder

> Solubility Very soluble in water, freely soluble in anhydrous ethanol, very

slightly soluble in 2-propanol, practically insoluble in methylene

chloride.

Identification Tests A:B:C as per E.P.

Appearance of solution As per E.P

4.5-6.0 рΗ

**Related Substance** 

(HPCL)

As per E.P

**Heavy Metals** As per E.P Iron As per E.P

Water, % Between 4.0 to 6.0

Assay, % Between 99.0 - 101.0

(anhydros substance)



## Thiopental sodium and sodium carbonate E.P./BP

MAIN INFO Description Thiopental sodium is a mixture of sodium

5-ethyl-5-{(1RS)1-methylbutyl}-4,6-dioxo-1,4,5,6-tetrahydropyrimidine-2-thiolate and anhydrous sodium

carbonate.

**CAS No** 71-73-8

Therapeutic Category Anesthetic Agent

Structural Formula

Molecular Formula  $C_{11}H_{17}N_2N\alpha O_2S$ 

Molecular mass 264.3

SPECIFICATION

Characers A yellowish-white powder, hygroscopic, freely soluble in water,

partly soluble in anhydrous ethanol.

**Identification** Tests A;B;C;D;E as per E.P.

**Appearance of solution** As per E.P

Chlorides NMT 330 ppm

Loss on drying, % NMT 2.5

Assay (anhydrous substance)

**Sodium,** % 10.2 – 11.2 **Thiopental,** % 84.0 – 87.0

Related impurities (HPLC)

Impurity A, %Not more than 0.1Impurity B, %Not more than 1.0Impurity C, %Not more than 3.0Impurity D, %Not more than 0.3

Unspecified impurities, % Not more than 0.10

**Total impurities,** % Not more than 5.0



#### Phenindione BP

MAIN INFO Chemical Name 2-phenylindane-1,3-dione

**CAS No** 83-12-5

Therapeutic Category Oral anticoagulant (indanedione)

Structural Formula

 ${\rm Molecular\, Formula} \qquad \qquad {\rm C_{15} H_{10} O_2}$ 

Molecular mass 222.22

SPECIFICATION Characters Soft, white or creamy white crystals; very slightly soluble in

water; slightly soluble in ethanol (96%) and in ether.

Solutions are yellow to red.

**Identification** Tests A;B;C as per BP

Melting point, °C 148-151

Related substances As per BP

 $\textbf{Loss on drying, \%} \hspace{1cm} \textbf{Not more than 1,0}$ 

**Assay,** % Between 98,0 to 100,5

Sulphated ash, % Not more than 0,1



#### Terpin Hydrate USP

MAIN INFO Chemical Name Cyclohexanemethanol, p-Menthane-1,8-diol monohydrate

**CAS No** 2451-01-6

Therapeutic Category Terpin hydrate is an expectorant commonly used to loosen

mucus in patients presenting with acute or chronic bronchitis,

and related conditions.

Structural Formula

Molecular mass 190.28

172.27 (anhydrous)

SPECIFICATION Physical form Colorless, lustrous crystals, or as a white powder; slight odor and

efflorescent in dry air.

**Description** Colourless, transparent crystals or white crystalline powder.

Solubility Slightly soluble in water, soluble in alcohol

**Identity** Tests A; B as per USP

Melting point, °C 115-117

Residue of ignition Not more than 0.1

Water, % Between 9.0 to 10.0

**Residual turpentine** No odor of turpentine oil

Assay, % Between 98.0 to 100.5



#### Etamsylate E.P.

MAIN INFO **Chemical Name** N-Ethylethanamine 2,5-Dihydroxybenzenesulfonate

> CAS No 2624-44-4

**Therapeutic Category** Hemostatic

Structural Formula ОН  $SO_3H$ 

• HN(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub> ОН

Molecular Formula  $C_{10}H_{17}NO_{5}S$ 

Molecular mass 263.3

Physical form A white or almost white crystalline powder, odourless.

> Characters White or almost white, crystalline powder. Very soluble in water,

freely soluble in methanol, soluble in anhydrous ethanol, practically insoluble in methylene chloride.

Identification Tests A:B:C as per E.P.

Appearance of solution As per E.P

Between 4.5 to 5,6

Related substance (HPLC) As per E.P Heavy metals As per E.P Iron As per E.P

Sulfated ash As per E.P

Not more than 0,5 Loss on drying, %

Between 99.0 to 101.0 Assay, % (anhydrous substance)



### Fentanyl Citrate E.P./ USP

MAIN INFO

Chemical Name

N- phenyl-N-[1-(2-phenylethyl) piperidin-4-yl] propanamide

dihydrogen2-hydroxypropane-1,2,3-tricarboxylate

**CAS No** 990-73-8

Physical form White crystalline powder or white glistening crystals.

Therapeutic Category Opiate analgesic (narcotic)

Structural Formula

Molecular Formula  $C_{22}H_{28}N_2O\cdot C_6H_8O_7$ 

Molecular mass 528.6

SPECIFICATION Characters Soluble in water, freely soluble in methanol, sparingly soluble in

ethanol (96%), slightly soluble in chloroform.

**Identification** Tests as per E.P/USP

Related substance (HPLC) As per E.P

Ordinary impurities(TLC) As per USP

Loss on drying, % Not more than 0.5

Assay, % (dried substance) Between 99.0 to 101.0

Appearance of solution As per E.P.

Melting point, °C About 152 (with decomposition)

Residue on ignitionAs per USPHeavy metalsAs per USP



#### Fentanyl E.P.

MAIN INFO

Chemical Name

N-phenyl-N-[1-(2-phenylethyl)piperidin-4-yl] propanamide

**CAS No** 437-38-7

Therapeutic Category Opiate analgesic (narcotic)

Structural Formula

Molecular mass 336.5

SPECIFICATION Physical form A white or almost white crystalline powder.

Characters White or almost white powder, practically insoluble in water,

freely soluble in alcohol and in methanol.

**Identification** Test as per E.P

**Related substance (HPLC)** As per E.P

Loss on drying, % Not more than 0.5

Assay, calculated with reference to the dried

substance, %

Between 99.0 to 101.0

Appearance of solution Clear and colorless (in 0,03% citric acid)

Melting point, °C 82.0-86.0

Clarity and color of solution

(Ph.Eur.cur.ed. 2.2.1.;

2.2.2 method)

Clear, colorless solution (in 0,03% citric acid)

Melting point °C 82.0-86.0

(Ph.Eur.cur.ed. 2.2.14

method)

Sulfated ash, % (Ph.Eur.cur.ed. 2.4.14

method)

NMT 0.1





**CONTACT US** 

info@nothernsynthesis.com www.northernsynthesis.com

