

*always  
inspiring more ...*



# Meet us at CPhI



## Symrise high end pharma specialities

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At this years CPhI Symrise reveals the latest highlight out of it's pharma portfolio – Canapure®!

CBD or Canapure® is our first launched GMP grade Cannabinoid which enters the market at the right time with outstanding quality and availability standards. Canapure® will be followed by a bunch of demanded and as well promising new edge Cannabinoids.

Our GMP Menthols are the foundation for our pharma business. They convince with high purity standard and reliability in application driven finished forms. Growing health consciousness and higher aspiration to personal restoration and health preservation, call for more functional products as our Menthols and their companion Thymol.

*Please enjoy!*



# Cannabinoids

## **Cannabinoid expert, backwards integrated**

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Our strong position in terpenes, terpene derivatives and Menthol guides us consequently to terpene driven Cannabinoids.

Symrise discovered and developed the synthesis of various Cannabinoids due to its unique expertise in organic chemistry and its intermediate and raw material access.

# Canapure® PH

689383

## Outstanding

Canapure® is fully developed, upscaled and produced under GMP conditions without limits.

It meets consumers expectations concerning no pesticides, no herbicides and other unwanted impurities.

Our Canapure® is a highly valuable pharmaceutical ingredient, as well as an intermediate for the synthesis of new active ingredients.

Identical to natural (-)-trans Cannabidiol

CAS-No.:	<b>13956-29-1</b>
Min assay:	<b>98,0 %</b>
Melting point:	<b>65-69 °C</b>
Appearance 20 °C:	<b>white to pale yellow crystals</b>
Stability min:	<b>2 years</b>
Standard packaging:	<b>1 kg and 5 kg drum</b>



# Cannabinoids

## Outstanding

Dronapure® ( $\Delta^9$ -THC) is on its way to GMP production by using a proprietary cleaning process with simulated moving bed technology.

Symrise deeply investigated in the field of potent Cannabinoid derivatives supported by tests of their biological activity and effects on specific cell lines. The availability of such a broad range of defined and reproducible cannabinoids opens new and valuable possibilities for pharma application.

Dronapure®, ( $\Delta^9$ -THC)	<b>in upscaling purity min. 98 %</b>
Cannabidivarin, CBDV	<b>upscaled purity min. 98%; crystalline powder</b>
Cannabigerol, CBG	<b>in upscaling purity min. 98%; crystalline powder</b>
Tetrahydrocannabivarin, delta-9-THCV	<b>lab. grade purity min. 98 %</b>
(+)-Cannabinoids	<b>lab. grade</b>



# Menthols

## More than 40 years of experience

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Symrise started the production of Menthols in Holzminden, Germany in 1973. Since then Symrise continuously

invested in the expansion of its Menthol capacities. Since 2002 Symrise has been producing pharma grades of Menthols.



# Menthol L Dist PH

612524

## Outstanding

Menthol L Dist PH is produced according to GMP standards in Symrise dedicated monoplants.

Of todays high interest is as well the low carbon footprint (*e. g. water and energy consumption, waste and land use*).

It is recommended for the use in sports gel, ointments, massage oil, patches, cough medicine, nasal spray, veterinary medicine and others.

Application of Menthol in liquid phase.

CAS-No.:	<b>2216-51-5</b>
Min assay:	<b>99,7 %</b>
Melting point:	<b>41 °C</b>
Appearance 20 °C:	<b>whitish to white fused-in crystals</b>
Stability min:	<b>2 years</b>
Standard packaging:	<b>180 kg drum</b>
Test according to:	<b>EP, USP, FCC</b>



# Menthol L Pellets PH

600012

## Outstanding

Menthol L Pellets PH is produced according to GMP standards in Symrise dedicated monoplants.

The low carbon footprint of production (*related to water and energy consumption, waste and land use*) meets the requirements of today's customers.

It is recommended for the use in sports gel, ointments, massage oil, patches, cough medicine, nasal spray, veterinary medicine and others.

CAS-No.:	<b>2216-51-5</b>
Min assay:	<b>99,7 %</b>
Melting point:	<b>41 °C</b>
Appearance 20 °C:	<b>whitish to white pelletized crystals</b>
Stability min:	<b>2 years</b>
Standard packaging:	<b>cardboard boxes 16 x 20 kg</b>
Test according to:	<b>EP, USP, FCC CEP SINCE 2004</b>





# Menthol L Pearls PH

610884

## Outstanding

Menthol L Pearls PH is produced according to GMP standards in Symrise dedicated monoplants.

Of todays high interest is as well the low carbon footprint (*e. g. water and energy consumption, waste and land use*).

It is recommended for the use in sports gel, ointments, massage oil, patches, cough medicine, nasal spray, veterinary medicine and others.

CAS-No.:	<b>2216-51-5</b>
Min assay:	<b>99,7 %</b>
Melting point:	<b>41 °C</b>
Appearance 20 °C:	<b>whitish to white solid drops</b>
Stability min:	<b>2 years</b>
Standard packaging:	<b>cardboard boxes 22 x 20 kg</b>
Test according to:	<b>EP, USP, FC</b>



# Menthol Racemic PH

I07643

## Outstanding

Menthol Rac PH is produced according to GMP standards in dedicated monoplants.

Symrise provides customers with a product that is characterized by a low carbon foot print (*e. g. water and energy consumption, waste and land use*).

It is recommended for the use in ointments.

CAS-No.:	<b>89-78-1</b>
Min assay:	<b>99 %</b>
Melting point:	<b>33 °C</b>
Appearance 20 °C:	<b>colorless to white liquid to crystalline product</b>
Stability min:	<b>2 years</b>
Standard packaging:	<b>180 kg drum</b>
Test according to:	<b>EP, USP, FC</b>





# Thymol Cryst PH

600349

## Outstanding

Thymol Cryst PH is produced according to GMP.

Of today's high interest is as well the low carbon footprint (*e. g. water and energy consumption, waste and land use*).

It is recommended for the use in inhalation medicines, beehive stripes and others.

CAS-No.:	<b>89-83-8</b>
Min assay:	<b>99 %</b>
Melting point:	<b>50 °C</b>
Appearance 20 °C:	<b>colorless to white crystals</b>
Stability min:	<b>2 years</b>
Standard packaging:	<b>cardboard boxes 16 x 20 kg</b>
Test according to:	<b>EP, USP, FCC</b>



# Benzyl Benzoate PH

613140

## Outstanding

Benzyl Benzoate PH is produced according to GMP.

The low carbon footprint of the product (e. g. water and energy consumption, land use) is in line with today's demand for fewer emissions.

It is recommended for the use in scabies ointments and veterinary medicine .

CAS-No.:	<b>120-51-4</b>
Min assay:	<b>99 %</b>
Melting point:	<b>50 °C</b>
Appearance 20 °C:	<b>clear, colorless liquid</b>
Stability min:	<b>2 years</b>
Standard packaging:	<b>200 kg drum</b>
Test according to:	<b>EP, USP, FCC</b>





[www.symrise.com](http://www.symrise.com)