




# Cannabigerol

**IUPAC Name:** 2-[(2E)-3,7-dimethyl-2,6-octadien-1-yl]-5-pentyl-1,3-benzenediol  
**CAS Number:** 25654-31-3  
**HS Code:** 2907 29 - Phenols, phenol-alcohols

**Organoleptic aspect:** whitish to yellowish powder, tasteless, odourless  
**Range of particle size:** 10-500 micro meter (average 200 µm)  
**Particle size in oily solution:** 1.5 nano meter

**GACP/EU Bio certified:** No/No  
**HACCP/Certified:** Yes/No  
**Certifications:**  Kosher Parve

## Chemical tests

Cannabigerol C5 + C4 + C3	≥95.0%
Cannabigerol C5	≥93.0%
Cannabidiol	≤0.5 %
THC	n.d.
Moisture	≤0.5 %
Ash	≤0.02 %
Molar mass	316.49 g·mol <sup>-1</sup>

## Microbiological tests

Total Plate Count	<10 cfu/g
Yeast and Mold	<10 cfu/g
Enterobacteriaceae	absent (cfu/25g)
Salmonella	absent (cfu/25g)
E. coli	absent (cfu/25g)
Aflatoxins	
B1, B2, G1, G2	<4 ppb
B1	<1 ppb

## Contaminants

Pb	<0.075 mg/kg	Pesticides	<0.01 mg/kg
Cd	<0.020 mg/kg	PAHs	<0.05 mg/kg
As	<0.150 mg/kg	Residual Class III solvents	≤500 mg/kg
Hg	<0.010 mg/kg	Glycerol	≤0.5 %

**Solubility:** Alcohols, Alkanes, Aromatic hydrocarbon, Chlorinated solvents, Polar aprotic solvents

**Nutritional profile per 100g:** Energy: 0kJ/0kCal, Fats 0g, of which Saturates 0g, Carbohydrates 0g, of which Sugars 0g, Fiber 0g, Protein 0g, Salt 0g

**Usage:** Industrial raw material. For professional use only.

**Disclaimer:** **This product is not intended to diagnose, treat, cure or prevent any disease**

**Packaging:** HDPE jar  
**Shelf life:** 24 months from date of production in cool and dark place.  
**MOQ:** 100 g  
**Supplier:** CBDepot, s.r.o., Masarykova 54, CZ-415 01 Teplice  
info@cbdepot.eu, www.CBDepot.eu  
tel.: +421 905 853 870, fax: +421 43 5866 75

# SAFETY DATA SHEET



according to Regulation (EC) No 1907/2006 (REACH) as amended

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier**  
Substance / mixture Cannabigerol  
Chemical name substance  
CAS number 2-[(2E)-3,7-Dimethyl-2,6-octadienyl]-5-pentyl-1,3-benzenediol  
25654-31-3  
Other names of the substance 2-[(2E)-3,7-Dimethyl-2,6-octadienyl]-5-pentyl-1,3-benzenediol
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
Intended use of the substance Food, cosmetic and electronic cigarette liquid raw material. For professional use only.  
Not recommended use of the substance The product should not be used in ways other than those referred in Section 1.  
Chemical safety report
- 1.3. Details of the supplier of the safety data sheet**  
**Manufacturer**  
Name or trade name PharmaCan s.r.o  
Address Kvapilova 927/14, Praha 5, 15000  
Phone 773 137 973  
**Competent person responsible for the safety data sheet**  
Name GRACILIS s.r.o.  
E-mail info@gracilis.cz
- 1.4. Emergency telephone number**  
National poisoning information centre UK, tel.: +44 844 892 0111.  
National Poisons Information Service Ireland, tel.: +353 1 809 2566.  
National poisoning information centre Scotland, tel.: 08454 242424 or 111.  
National Poisons Information Service Edinburgh, Royal Infirmary of Edinburgh, Little France Crescent, Edinburgh, EH16 4SA, tel.: +44 131 242 1383.

### SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture**  
**Classification of the substance in accordance with Regulation (EC) No 1272/2008**  
The substance is not classified as dangerous according to Regulation (EC) No 1272/2008.  
Full text of all classifications and H-phrases is given in the section 16.
- 2.2. Label elements**  
none
- 2.3. Other hazards**  
Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

### SECTION 3: Composition/information on ingredients

- 3.1. Substances**  
**Chemical characterization**  
The substance specified below. Molecular formula: C<sub>21</sub>H<sub>32</sub>O<sub>2</sub>.

Identification numbers	Name of the substance	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 25654-31-3	<b>main component of the substance</b> 2-[(2E)-3,7-Dimethyl-2,6-octadienyl]-5-pentyl-1,3-benzenediol	95-100		

Full text of all classifications and H-phrases is given in the section 16.

### SECTION 4: First aid measures

- 4.1. Description of first aid measures**  
Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this Safety Data Sheet.

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### Inhalation

Terminate the exposure immediately; move the affected person to fresh air. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

### Skin contact

Remove contaminated clothes. Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Provide medical treatment if skin irritation persists.

### Eye contact

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Flush with copious amounts of water for at least 15 minutes. Depending on the situation, call medical rescue service or ensure medical treatment.

### Ingestion

Rinse mouth with water. DO NOT INDUCE VOMITING! Never give anything by mouth to an unconscious person. In the event of issues, find medical help.

## 4.2. Most important symptoms and effects, both acute and delayed

### Inhalation

There may be irritation of the throat with a feeling of tightness in the chest.

### Skin contact

There may be mild irritation at the site of contact.

### Eye contact

There may be irritation and redness.

### Ingestion

There may be irritation of the throat.

## 4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Unsuitable extinguishing media

not available

### 5.2. Special hazards arising from the substance or mixture

In combustion, may emit toxic fumes. Exposure to decomposition products may cause serious health damage.

### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Avoid breathing vapors, mist, dust or gas. Evacuate personnel to safe areas. Follow the instructions in the Sections 7 and 8.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

### 6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Use non-sparking tools. Dispose of the collected material according to the instructions in the section 13. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid the formation of dust and aerosols. Provide sufficient ventilation. Keep away from sources of ignition. Avoid prolonged or repeated exposure. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose.

Storage temperature -20 °C

#### 7.3. Specific end use(s)

Use in a laboratory fume hood where possible.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

none

#### 8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest. Use in a fume hood where applicable. Ensure laboratory is equipped with a safety shower and eye wash station.

##### Eye/face protection

Protective goggles.

##### Skin protection

Hand protection: chemical resistant gloves (EN 374). Other protection: protective clothing.

##### Respiratory protection

If risk assessment indicates necessary, use a suitable respirator.

##### Thermal hazard

Not available.

##### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance	
Physical state	solid at 20°C
color	white
Odour	data not available
Odour threshold	data not available
pH	data not available
Melting point/freezing point	data not available
Initial boiling point and boiling range	data not available
Flash point	data not available
Evaporation rate	data not available
Flammability (solid, gas)	data not available
Upper/lower flammability or explosive limits	
flammability limits	data not available
explosive limits	data not available
Vapour pressure	data not available
Vapour density	data not available
Relative density	data not available
Solubility(ies)	
solubility in water	insoluble
solubility in fats	soluble
Partition coefficient: n-octanol/water	data not available
Auto-ignition temperature	data not available
Decomposition temperature	data not available
Viscosity	data not available
Explosive properties	data not available

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	Oxidising properties	data not available
<b>9.2. Other information</b>		
	Density	data not available
	ignition temperature	data not available
	Molecular weight: 316,48 g/mol.	

### SECTION 10: Stability and reactivity

- 10.1. Reactivity**  
The product is stable under normal conditions.
- 10.2. Chemical stability**  
The product is stable under normal conditions.
- 10.3. Possibility of hazardous reactions**  
The product is stable under normal conditions.
- 10.4. Conditions to avoid**  
The product is stable and no degradation occurs under normal use. Keep away from heat and moisture.
- 10.5. Incompatible materials**  
Keep away from strong acids/alkalis, strong oxidising/reducing agents.
- 10.6. Hazardous decomposition products**  
Not developed under normal uses. In combustion may emit toxic fumes.

### SECTION 11: Toxicological information

- 11.1. Information on toxicological effects**  
No toxicological data is available for the substance.

#### Acute toxicity

Based on available data the classification criteria are not met.

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Route of exposure	Parameter	Value	Time of exposure	Species	Sex
	TDL <sub>0</sub>	5 mg/kg		Rat	

#### Skin corrosion/irritation

Based on available data the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data the classification criteria are not met.

#### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data the classification criteria are not met.

#### Carcinogenicity

Based on available data the classification criteria are not met.

#### Reproductive toxicity

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

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### Aspiration hazard

Based on available data the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

Based on available data the classification criteria are not met.

### 12.2. Persistence and degradability

Data not available.

### 12.3. Bioaccumulative potential

Not available.

### 12.4. Mobility in soil

Not available.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Other adverse effects

May be harmful to the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Legislation of waste

Council Directive 75/442/EEC on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

## SECTION 14: Transport information

### 14.1. UN number

Not subject to ADR.

### 14.2. UN proper shipping name

not available

### 14.3. Transport hazard class(es)

not available

### 14.4. Packing group

not available

### 14.5. Environmental hazards

not available

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not available

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### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act).

#### 15.2. Chemical safety assessment

not available

### SECTION 16: Other information

#### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

#### Key to abbreviations and acronyms used in the safety data sheet

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

#### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

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### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. First aid principles after the exposure to the chemicals (Zásady pro poskytování první pomoci při expozici chemickým látkám, doc. MUDr. Daniela Pelclová, CSc., MUDr. Alexandr Fuchs, CSc., MUDr. Miroslava Hornychová, CSc., MUDr. Zdeňka Trávníčková, CSc., Jiřina Fridrichovská, prom. chem.). Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.