

# **Scientific Documentation**

# Panthenol, USP

Not appropriate for regulatory submission.

Please visit www.spectrumchemical.com or contact Tech Services for the most up-to-date information contained in this information package.

Spectrum Chemical Mfg Corp 769 Jersey Avenue New Brunswick, NJ 08901 Phone 732.214.1300





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# Specification for Panthenol, USP (P1910)

Item Number	P1910
Item	Panthenol, USP
CAS Number	16485-10-2
Molecular Formula	$C_9H_{19}NO_4$
Molecular Weight	205.25
MDL Number	
Synonyms	(+/-)-Pantothenyl Alcohol; (+/-)-Panthenol; (+/-)-Panthenol; (+/-)-Pantothenyl Alcohol

Test	Specifica	tion
	Min	Max
ASSAY (DRIED BASIS)	99.0	102.0 %
MELTING RANGE	64.5	68.5°C
SPECIFIC ROTATION [a] <sub>D</sub>	-0.05° to +0.05°	
LOSS ON DRYING		0.5 %
RESIDUE ON IGNITION		0.1 %
AMINOPROPANOL		0.10 %
ELEMENTAL IMPURITIES	AS REPORTED	
IDENTIFICATION		TO PASS TEST
CERTIFIED HALAL		
EXPIRATION DATE		
DATE OF MANUFACTURE		
APPEARANCE		
RESIDUAL SOLVENTS		TO PASS TEST

## Spectrum Chemical Mfg Corp

Corporate Headquarters:West Coast Facility:769 Jersey Ave.14422 S. San Pedro St.New Brunswick, NJ 08901Gardena, CA 90248732.214.1300310.516.8000



# **Certificate Of Analysis**

Item Number	P1910	Lot Number	1NB0291
Item	Panthenol, USP	CAS Number	16485-10-2
Molecular Formula	$C_9H_{19}NO_4$	Molecular Weight	205.25

TECT	SPECIF	ICATION	DECLUIT.
TEST	MIN	MAX	RESULT
ASSAY (DRIED BASIS)	99.0	102.0 %	99.5 %
MELTING RANGE	64.5	68.5°C	64.5 - 65.5°C
SPECIFIC ROTATION [a] <sub>D</sub>	-0.05° to +0.05°		0°
LOSS ON DRYING		0.5 %	0.2 %
RESIDUE ON IGNITION		0.1 %	<0.1 %
AMINOPROPANOL		0.10 %	0.01 %
ELEMENTAL IMPURITIES	AS REPORTED		NO ELEMENTAL IMPURITIES PRESENT
IDENTIFICATION		TO PASS TEST	PASSES TEST
CERTIFIED HALAL			CERTIFIED HALAL
EXPIRATION DATE			16-NOV-2026
DATE OF MANUFACTURE			17-NOV-2023
APPEARANCE			WHITE CRYSTALLINE POWDER
RESIDUAL SOLVENTS		TO PASS TEST	PASSES TEST
CLASS 2 (SOLVENT) / METHANOL			<3000 ppm
CLASS 3 (solvent) / ETHYL ACETATE			<5000 ppm
MONOGRAPH EDITION			(USP-NF) 2023

Certificate of Analysis Results Entered By:

HBERMUDEZ Hernan Bermudez 13-MAR-24 17:49:01

Spectrum Chemical Mfg Corp 14422 South San Pedro Street Gardena 90248 CA



Certificate of Analysis Results Approved By:

SHANSEN Selin Hansen 15-MAR-24 09:47:47

All pharmaceutical ingredients are tested using current edition of applicable pharmacopeia.

Read and understand label and SDS before handling any chemicals. All Spectrum's chemicals are for manufacturing, processing, repacking or research purposes by experienced personnel only. It is the customer's responsibility to provide adequate hazardous material training and ensure that appropriate Personal Protective Equipment (PPE) is used before handling any chemical.

The Elemental Impurities standards implemented by USP and other Pharmaceutical Compendia reflect a growing understanding of the toxicology of trace levels of elemental impurities that can remain in drug substances originating from either raw materials or manufacturing processes. Identifying and quantifying impurities can be critical to predicting the best possible patient outcomes. Elemental Impurities has been a requirement of all products meeting USP/NF, EP and BP monographs since January 1, 2018. More information can be found in USP sections <232> Elemental Impurities – Limits and <233> Elemental Impurities – Procedures. Data for drug substances furnished by Spectrum Chemical Mfg. Corp can be used to ensure that patient daily exposures by oral administration to the selected elements are not exceeded in the formulation of pharmaceutical products.





# SAFETY DATA SHEET

Preparation Date: 9/27/2017 Revision Date: 6/7/2018 Revision Number: G2

#### 1. IDENTIFICATION

Product identifier

Product code: P1910

Product Name: PANTHENOL, USP

Other means of identification

Synonyms: Alcool DL-pantotenilico (Italian)

Butanamide, 2,4-dihydroxy-N-(3-hydroxypropyl)-3,3-dimethyl-, (+-)- (9Cl) Butyramide, 2,4-dihydroxy-N-(3-hydroxypropyl)-3,3-dimethyl-, (+-)- (8Cl)

(+-)-2,4-Dihydroxy-N-(3-hydroxypropyl)-3,3-dimethylbutyramide

DL-Pantothenyl alcohol

Pantenol Panthenol (+/-)-Panthenol

(+-)-Pantothenyl alcohol

CAS #: 16485-10-2
RTECS # ES4316500
CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
No information available

Supplier: Spectrum Chemical Mfg. Corp

14422 South San Pedro St. Gardena, CA 90248

(310) 516-8000

Order Online At: https://www.spectrumchemical.com

Emergency telephone numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

## 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

Not classified	

Product code: P1910 Product name: PANTHENOL, USP 1/10

#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
DL-Pantothenyl Alcohol	16485-10-2	100

#### 4. FIRST AID MEASURES

First aid measures

General Advice: National Capital Poison Center in the United States can provide assistance if you

have a poison emergency and need to talk to a poison specialist. Call

1-800-222-1222.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothing and

shoes. Get medical attention if irritation develops. Consult a physician if necessary.

Eye Contact: Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms

persist, call a physician.

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use

May cause eye/skin/respiratory tract irritation

Ingestion of large amounts may cause gastrointestinal/digestive irritation or upset.

Ingestion of large amounts may cause nausea, vomiting, abdominal pain

Indication of any immediate medical attention and special treatment needed

Notes to Physician: Treat symptomatically.

**Protection of first-aiders** 

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of

contaminated clothing and equipment as bio-hazardous waste.

#### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media** 

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Monoxide, Carbon Dioxide. Nitrogen Oxides.

Product code: P1910 Product name: PANTHENOL, USP 2 / 10

**Specific hazards:** May be combustible at high temperatures.

**Special Protective Actions for Firefighters** 

Specific Methods: No information available.

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

#### 6. ACCIDENTAL RELEASE MEASURES

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

Personal Precautions: Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal

protective equipment. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains.

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

Methods for containment Stop leak if you can do it without risk. Cover powder spill with plastic sheet or tarp

to minimize spreading.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean contaminated

surface thoroughly.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

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

#### **Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

#### **Incompatible Materials:**

Strong oxidizing agents

Strong bases

Strong acids

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

#### National occupational exposure limits

#### **United States**

Product code: P1910 Product name: PANTHENOL, USP 3 / 10

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
DL-Pantothenyl Alcohol	16485-10-2	None	None	None	None

#### Canada

Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
DL-Pantothenyl Alcohol	16485-10-2	None	None	None	None

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
DL-Pantothenyl Alcohol	16485-10-2	None	None

#### **Appropriate engineering controls**

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Use process enclosures,

local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants

below the exposure limit.

#### Individual protection measures, such as personal protective equipment

#### **Personal Protective Equipment**

**Eye protection:** Safety glasses with side-shields

Skin and body protection: Long sleeved clothing

Chemical resistant apron

Gloves

**Respiratory protection:** Effective dust mask. Use a dust respirator under conditions where exposure to

the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified

respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and

immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:Appearance:Color:SolidCrystalline powder.White.

Odor:TasteFormula:No information available.No information available.C9H19NO4

Molecular/Formula weight:Flammability:Flashpoint (°C/°F):205.25No information availableNo information available.

Flash Point Tested according to: Autoignition Temperature (°C/°F): Lower Explosion Limit (%): Not available

No information available

No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

No information available 64.5-69 °C/148-156 °F No information available

Product code: P1910 Product name: PANTHENOL, USP 4/10

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

239.8 °C/463.6 °F No information available 1,29

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

Evaporation rate: Vapor density: VOC content (g/L):
No information available No information available No information available

Odor threshold (ppm): Partition coefficient Viscosity:

No information available (n-octanol/water): No information available

log Kow = -1.02

Miscibility: Solubility:

No information available Freely soluble in water Soluble in Ethanol

Soluble in Propylene glycol

10. STABILITY AND REACTIVITY

Reactivity

May react with strong oxidizers

**Chemical stability** 

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

<u>Conditions to avoid:</u> Heat. Avoid dust formation. Incompatible materials.

<u>Incompatible Materials:</u> Strong oxidizing agents

Strong bases Strong acids

Hazardous decomposition

products:

Carbon monoxide. Nitrogen oxides (NOx).

Other Information

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

# 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

**Principal Routes of Exposure:** 

Eyes. Ingestion. Inhalation. Skin.

**Acute Toxicity** 

**Component Information** 

DL-Pantothenyl Alcohol
CAS-No. | 16485-10-2

LD50/oral/rat = >2000 mg/kg

LD50/oral/mouse = No information available

Product code: P1910 Product name: PANTHENOL, USP 5/10

LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = > 2000 mg/kg

LD50/oral/mouse =

**Value - Acute Tox Oral =** No information available

LD50/dermal/rabbit

**VALUE-Acute Tox Dermal** = No information available

LD50/dermal/rat

VALUE -Acute Tox Dermal = >2000 mg/kg

LC50/inhalation/rat

VALUE-Vapor = No information available
VALUE-Gas = No information available
VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available
VALUE - Gas = No information available
VALUE - Dust/Mist = No information available

**Symptoms** 

**Skin Contact:** Not likely to cause skin irritation. May cause skin irritation in sensitive individuals.

**Eye Contact:** May cause eye irritation.

**Inhalation** Health injuries are not known or expected under normal use.

**Ingestion** Not expected to be a health hazard for usual industrial handling. Health injuries

are not known or expected under normal use. Ingestion of large amounts may cause gastrointestnal tract irritation. Ingestion may cause nausea, vomiting,

diarrhea.

**Aspiration hazard** No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Chronic Toxicity** No information available.

**Sensitization:** No information available.

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	CAS-No.	IARC	ACGIH -	NTP	OSHA HCS -	Australia -	Australia -
-			Carcinogens		Carcinogens	Notifiable	Prohibited
			_		_	Carcinogenic	Carcinogenic
						Substances	Substances

Product code: P1910 Product name: PANTHENOL, USP 6/10

DL-Pantothenyl Alcohol 16485-10-2 Not listed Not listed Not listed Not listed Not listed Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity No data is available

Reproductive Effects: No information available Developmental Effects: No information available Teratogenic Effects: No information available

**Specific Target Organ Toxicity** 

STOT - single exposure
STOT - repeated exposure
Target Organs:

No information available.
No information available.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

**Mobility:** No information available.

#### 13. DISPOSAL CONSIDERATIONS

#### **Disposal Methods**

#### Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

#### Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	CAS-No.	RCRA - F Series	RCRA - K Series	RCRA - P Series	RCRA - U Series	
		Wastes	Wastes	Wastes	Wastes	
DL-Pantothenyl Alcohol	16485-10-2	None	None	None	None	

#### 14. TRANSPORT INFORMATION

DOT

UN-No: Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Product code: P1910 Product name: PANTHENOL, USP 7/10

Marine PollutantNo data availableDOT RQ (lbs):No information availableSpecial ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

**ADR** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

**RID** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

**ICAO** 

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available
No information available
No information available

**IATA** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
No information available

#### 15. REGULATORY INFORMATION

#### **International Inventories**

ſ	Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines	Japan ENCS	CHINA	Australia	EINECS-No.
1	•				(PICCS)	_		(AICS)	

Product code: P1910 Product name: PANTHENOL, USP 8 / 10

DL-Pantothenyl	16485-10-2	PresentACTIV	Not present	Present	Present	Present	Present	Present
Alcohol		E			(9)-998			240-540-6

#### U.S. Regulations

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	CAS-No.	Carcinogen	<b>Developmental Toxicity</b>	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
DL-Pantothenyl Alcohol	16485-10-2	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
DL-Pantothenyl Alcohol	16485-10-2	None	None	None	None	None

#### **U.S. TSCA**

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
DL-Pantothenyl Alcohol	16485-10-2	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Not a dangerous product according to HPR classification criteria.

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### WHMIS 1988 Hazard Class

Non-controlled

#### **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

Components	CAS-No.	Canada (DSL)	Canada (NDSL)
DL-Pantothenyl Alcohol	16485-10-2	Present	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
DL-Pantothenyl Alcohol	16485-10-2	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject

Product code: P1910 Product name: PANTHENOL, USP 9/10

		to Mandatory Reporting
DL-Pantothenyl Alcohol	16485-10-2	Not listed

#### **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
DL-Pantothenyl Alcohol	16485-10-2	

#### EU - CLP (1272/2008)

#### R-phrase(s)

not determined (not applicable) none

### S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
DL-Pantothenyl Alcohol	16485-10-2		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

#### Indication of danger:

Not dangerous

None.

# **16. OTHER INFORMATION**

Preparation Date:9/27/2017Revision Date:6/7/2018Prepared by:Sonia Owen

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

#### **End of Safety Data Sheet**

Product code: P1910 Product name: PANTHENOL, USP 10 / 10



# Certification of Compliance with current Good Manufacturing Practices

#### Dear Valued Customer:

Spectrum Chemical Mfg Corp certifies that the following product(s) is produced, processed, packaged and held in compliance with current Good Manufacturing Practices (cGMP) in accordance with the applicable parts of 21 CFR, parts 210 and 211 of the Code of Federal Regulations.

Catalog Number	Product Name
P1910	Panthenol, USP

Spectrum is an FDA registered and inspected Drug Establishment. Our United States Food and Drug Administration (USFDA) Registration numbers are as follows:

Spectrum-Gardena, CA: 2020632 Spectrum-New Brunswick, NJ: 2246824

Thank you for your interest in Spectrum products. If we may be of further assistance, please feel free to contact the Quality Assurance department at 310-516-8000 or via email at <a href="mailto:qualityassurance@spectrumchemical.com">qualityassurance@spectrumchemical.com</a>

Sincerely,

Oralia Chavez

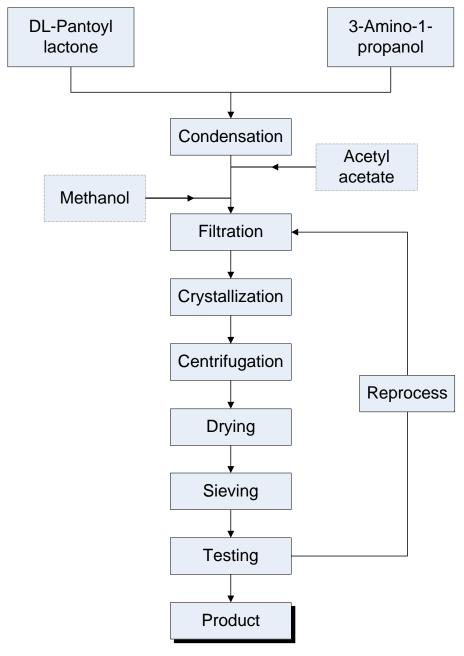
**Quality Assurance Specialist** 

Order Clony



# **Manufacturing Process Flowchart**

Panthenol, USP - P1910



## Spectrum Chemical Mfg Corp

Corporate Headquarters:

769 Jersey Ave.

New Brunswick, NJ 08901

732.214.1300

West Coast Facility:

14422 S. San Pedro St. Gardena, CA 90248

310.516.8000



# P1910, Panthenol, USP

## **Source Statement**

The above mentioned catalog item is manufactured by chemical synthesis. No animal or plant derived products are used in the manufacturing process.

## **BSE/TSE Statement**

The above mentioned catalog item does not contain nor is manufactured using any animal derived products and is therefore, BSE/TSE free.

# **Allergen Statement**

The above mentioned catalog item does not contain any of the following:

- Milk
- Egg
- Fish
- Shellfish
- Tree Nuts
- Wheat
- Peanuts
- Soy

- Cereals containing Gluten
- Celery
- Mustard
- Sesame Seed
- Corn
- Latex
- Sulfites > 10 ppm

# **EU Fragrance Allergen Statement**

The above mentioned catalog item does not contain any of the 26 EU fragrance allergens listed in Annex III lines 67-92. These substances are not intentionally added to the following chemical and therefore are not expected to be present.

#### **GMO Statement**

The above mentioned catalog item is manufactured without the use of genetically modified organisms and is therefore GMO free.

# **Melamine Statement**

The above mentioned catalog does not use or add melamine to the manufacturing process and is considered melamine-free.



## **Nitrosamine Statement**

Based on knowledge of the manufacturing process, nitrosamine impurities are not known or suspected to be present in this material.

# **Animal Testing Statement**

The above mentioned catalog item has not been tested on animals.

# **Organic Compliance Statement**

The above mentioned catalog item has not been produced using GMOs, irradiation, ethylene oxide (EtO) or sewage sludge.

## **Shelf Life Statement**

The above mentioned catalog item is typically assigned a shelf life of 36 months from the date of manufacture. The actual assigned shelf life for any specific lot should be referenced on the Certificate of Analysis.

## **Other Chemicals Statement**

Spectrum does not have any reason to suspect the above mentioned catalog item contains any of the following chemicals. This product does not come into contact with these chemicals during packaging or storage:

- Aflatoxins
- Antibiotics
- Bisphenol A (BPA)
- CMR Substances

- Parabens
- Pesticides
- Phthalates
- Preservatives



**RE: Elemental Impurities – Panthenol, USP (Cat# P1910)** 

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above mentioned material complies with the USP<232>, <233> Elemental Impurities and the ICH Q3D Elemental Impurities Guideline. No Class 1, Class 2A, Class 2B or Class 3 elemental impurities are likely to be present. These substances are not used in the production process, are not intentionally added or known to be present in the above mentioned material.

This information is subject to change and is intended for risk assessment only. It is responsibility of the end user to evaluate suitability of any chemical for the intended use as well as to assess compound-specific limits of daily intake of metal impurities. For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.

CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY

14422 South San Pedro Street
Gardena, California 90248
PHONE 310.516.8000
FAX 310.516.9843



# RE: Residual Solvents - Panthenol, USP (Cat# P1910)

To Whom It May Concern:

Thank you for your interest in Spectrum high quality chemicals.

The above mentioned catalog item complies with the requirements of USP <467> Residual Solvents and ICH Q3C Residual Solvents Guideline. The following solvents are likely to be present:

Residual Solvent	Class	Expected Concentration
Methanol	2	3000 ppm
Ethyl acetate	3	5000 ppm

No Class 1 or other solvents are used or produced in the manufacturing process of this material.

For lot-specific information, please refer to the respective Certificate of Analysis.

If you have any further questions, please contact us by telephone at 1(800)772-8786 Option 2, or by email at <a href="mailto:TechServices@spectrumchemical.com">TechServices@spectrumchemical.com</a>.

Sincerely,

Technical Services
Spectrum Chemical Mfg. Corp.

This document has been produced electronically and is valid without a signature.

CORPORATE HEADQUARTERS

769 Jersey Avenue New Brunswick, NJ 08901 PHONE 732.214.1300 FAX 732.246.7132 WEST COAST FACILITY

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FAX 310.516.9843



# **Label Information**

The Spectrum label presents technical and safety information in an easily understood format. Our technical specialists stay abreast of the latest requirements of the Globally Harmonized System for Classification and Labelling of Chemicals (GHS), as well as the Occupational Safety and Health Administration (OSHA), the Food and Drug Administration (FDA) and other government regulatory agencies in order to ensure compliance, accuracy and concise hazard communication.



SPECTIUM CORP

C<sub>9</sub>H<sub>19</sub>NO<sub>4</sub> F.W. 205.25

P1910—

# **1**3 − 500 G

# Panthenol

 $[(\pm)$ -Panthenol;  $(\pm)$ -Pantothenyl Alcohol]

U.S.P. -CAS 16485-10-2

CAUTION: For manufacturing, processing or repacking.

Read and understand the label and Safety Data Sheet (SDS) prior to use.

> Chemical Emergency: (800)424-9300 www.SpectrumChemical.com

Assay (Dried Basis)................ 99.0-102.0% Specific Rotation.....-0.05° to +0.05° MAXIMUM LIMITS

Residue on Ignition......0.1% Aminopropanol ......0.10% Residual Solvents ......To pass test

Lot No. 062233

SPECTRUM CHEMICAL MFG. CORP.

G 4/E8GHS Gardena, CA 90248 • New Brunswick, NJ 08901

- A Bar Code
- B GHS Hazard Pictograms
- Warning, Safety Data and Precautionary Information
- Product Catalog Number
- Item Name, Form, Grade
- Storage Color Band

- Size/Quantity
- Chemical Abstracts Service (CAS) Registry Number
- Caution Information
- DOT Shipping Information
- Toll-Free 24-Hour Chemical Emergency Telephone Number
- Empirical Formula, Formula Weight and Technical Specifications Panel
- Expiration Information
- Lot Number
- Kosher Certified by Kosher Supervision of America (KSA).

YELLOW: Oxidizer

**RED**: Flammable **GREEN:** General Storage

**BLUE**: Health Hazard

WHITE: Corrosive

This color-coded band indicates the hazard most likely to be posed by that material under storage conditions. The criteria used to assign band colors have been established by the Storage Code working group of the Society for Chemical Hazard Communication (SCHC). It is recommended that like colors be stored together, unless otherwise stated, based on the color codes indicated to the right. However, it is the responsibility of the customer to check with their local fire department for possible conflicts with our recommendations when storing hazardous chemicals.

# Spectrum Chemical Mfg Corp

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