

## **Scientific Documentation**

## **Potassium Gluconate, Anhydrous, 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 Potassium Gluconate, Anhydrous, USP (PO178)**

Item Number	PO178
Item	Potassium Gluconate, Anhydrous, USP
CAS Number	299-27-4
Molecular Formula	C <sub>6</sub> H <sub>11</sub> KO <sub>7</sub>
Molecular Weight	234.25
MDL Number	
Synonyms	D-Gluconic Acid, Monopotassium Salt ; Monopotassium D-Gluconate

Test	Specification		
	Min	Max	
ASSAY (DRIED BASIS)	97.0	103.0 %	
LOSS ON DRYING		3.0 %	
ELEMENTAL IMPURITIES	AS REPORTED		
REDUCING SUBSTANCES		1.0 %	
IDENTIFICATION A (FTIR)	SPECTRUM MATCHES REFERENCE		
IDENTIFICATION (B)	VIOLET COLOR PRODUCED		
IDENTIFICATION (C)	PRINCIPAL SPOT CORRESPONDS TO STANDARD		
CERTIFIED HALAL			
EXPIRATION DATE			
DATE OF MANUFACTURE			
APPEARANCE			
RESIDUAL SOLVENTS	AS REPORTED		

#### Spectrum Chemical Mfg Corp

Corporate Headquarters:	West Coast Facility:
769 Jersey Ave.	14422 S. San Pedro St.
New Brunswick, NJ 08901	Gardena, CA 90248
732.214.1300	310.516.8000



## **Certificate Of Analysis**

Item Number	PO178	Lot Number	1LH0685
Item	Potassium Gluconate, Anhydrous, USP	CAS Number	299-27-4
Molecular Formula	С <sub>6</sub> Н <sub>11</sub> КО <sub>7</sub>	Molecular Weight	234.25

тгст	SPECIFICATION			
TEST	MIN	MAX	RESULT	
ASSAY (DRIED BASIS)	97.0	103.0 %	99.5 %	
LOSS ON DRYING		3.0 %	0.2 %	
ELEMENTAL IMPURITIES	AS REPORTED		NO ELEMENTAL IMPURITIES PRESENT	
REDUCING SUBSTANCES		1.0 %	<0.5 %	
IDENTIFICATION A (FTIR)	SPECTRUM MATCHES REFERENCE		SPECTRUM MATCHES REFERENCE	
IDENTIFICATION (B)	VIOLET COLOR PRODUCED		VIOLET COLOR PRODUCED	
IDENTIFICATION (C)	PRINCIPAL SPOT CORRESPONDS TO STANDARD		PRINCIPAL SPOT CORRESPONDS TO STANDARD	
CERTIFIED HALAL			CERTIFIED HALAL	
EXPIRATION DATE			31-JAN-2024	
DATE OF MANUFACTURE			17-JAN-2021	
APPEARANCE			WHITE CRYSTALLINE POWDER	
RESIDUAL SOLVENTS	AS REPORTED		NO RESIDUAL SOLVENTS USED	
MONOGRAPH EDITION			(USP) 2022	

Certificate of Analysis Results Entered By:

HBERMUDEZ Hernan Bermudez 02-SEP-22 13:08:17

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



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.

Certificate of Analysis Results Approved By:

JRUIZ Jesus Ruiz 02-SEP-22 16:34:30

# **spectrum**<sup>®</sup>



### SAFETY DATA SHEET

Preparation Date: 08/26/2015	Daration Date:   08/26/2015   Revision date   6/18/2019				
1. IDENTIFICATION					
Product identifier					
Product code:	PO178				
Product Name:	POTASSIUM GLUCONATE, ANHYDROUS, USP				
Other means of identification					
Synonyms:	D-Gluconic acid, potassium salt (1:1)				
	D-Gluconic acid, monopotassium salt				
	Gluconic acid potassium salt				
	Gluconic acid, monopotassium salt				
	Kalium Gluconate				
	Monopotassium D-gluconate				
	Potassium D-gluconate				
CAS #:	299-27-4				
RTECS #	LZ5230000				
CI#:	Not available				
Recommended use of the che	mical and restrictions on use				
Recommended use:	Medication.				
Uses advised against	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 number	Chemtrec 1-800-424-9300				
Contact Person:	Tom Tyner (USA - West Coast)				
Contact Person:	Ibad Tirmiz (USA - East Coast)				

#### 2. HAZARDS IDENTIFICATION

#### **Classification**

This chemical is not considered hazardous by 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

Hazards not otherwise classified (HNOC)

#### Other hazards Not available

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component		CAS No	Weight-%			
Potassium Gluconate, Anhydrous 29		299-27-4	100			
		4. FIRST AID MEASURES				
First aid measures						
	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.					
		immediately with soap and plenty of wa et medical attention if irritation develops	ater removing all contaminated clothing and s. Consult a physician if necessary.			
		es with water for 15 minutes. Get medic all a physician.	al attention if irritation occurs. If symptoms			
		resh air. If not breathing, give artificial i Get medical attention.	respiration. If breathing is difficult, give			
		duce vomiting without medical advice. I ous person. Consult a physician if nece				
Most important symptoms and effect	s, both a	cute and delayed				
	May cause skin irritation May cause eye irritation May cause respiratory irritation Ingestion may cause nausea, vomiting, and diarrhea Abdominal pain Central nervous system effects May affect the urinary system					
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 Dry chemical. Carbon dioxide (CO2). Water spray mist, foam.			on dioxide (CO2). Water spray mist, or			
Unsuitable Extinguishing Media:		No information avai	lable.			
Specific hazards arising from	he che	emical				
Product code: PO178	B Product name: POTASSIUM Page GLUCONATE, ANHYDROUS, USP		<b>Page</b> 2 / 11			

Hazardous combustion products

Specific hazards

Special Protective Actions for Firefighters

**Specific Methods:** 

**Special Protective Equipment for Firefighters:** 

Carbon Monoxide, Carbon Dioxide. Potassium oxides.

May be combustible at high temperatures.

No information available

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. Use personal protective equipment. Avoid breathing dust. Avoid dust formation. Avoid contact with skin, eyes and clothing. 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 with plastic sheet to prevent 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. Keep away from incompatible materials.

#### Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. 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:

Oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

#### National occupational exposure limits

#### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Potassium Gluconate, Anhvdrous	299-27-4	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Potassium Gluconate, Anhydrous	299-27-4	None	None	None	None

#### Australia and Mexico

Component	CAS No	Australia	Mexico
Potassium Gluconate, Anhydrous	299-27-4	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:	Chemical resistant apron Long sleeved clothing Gloves			
Respiratory protection:	Respiratory protection is not necessary for normal handling. Good room ventilation or use of local exhaust (fume hood) is sufficient.			
Hygiene measures:	Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product			
9	. PHYSICAL AND CHEMICAL PROPE	ERTIES		
Physical state: Solid	<b>Appearance:</b> Crystals.	<b>Color:</b> White to yellowish.		
<b>Odor:</b> Odorless.	<b>Taste</b> Saline. Slight.	<b>Formula</b> C6H11KO7		
Molecular/Formula weight (g/mo 234.25	le): Flammability (solid, gas) no data available	<b>Flash point (°C):</b> 180°C		
<b>Flashpoint (°C/°F):</b> 180°C/ 356°F	Flash Point Tested according to: Closed cup	Autoignition Temperature (°C/°F): No information available		

Lower Explosion Limit (%):	Upper Explosion Limit (%):	Melting point/range(°C/°F):
No information available	No information available	No information available
<b>Decomposition temperature(°C/°F):</b>	<b>Boiling point/range(°C/°F):</b>	Bulk density:
180°C/ 356°F	No information available	No information available
<b>Density (g/cm3):</b>	<b>Specific gravity:</b>	<b>pH</b>
No information available	No information available	7.5-8.5
Vapor pressure @ 20°C (kPa):	<b>Evaporation rate:</b>	Vapor density:
No information available	No information available	No information available
<b>VOC content (g/L):</b> No information available	Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available

Viscosity: No information available Miscibility: No information available Solubility: Easily soluble in cold water Insoluble in diethyl ether Insoluble in Alcohol Insoluble in Benzene Insoluble in Chloroform

#### **10. STABILITY AND REACTIVITY**

#### Reactivity Reactive with oxidizing agents

#### Chemical stability

Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	_Hazardous polymerization does not occur
Conditions to avoid:	Heat. Incompatible materials.
Incompatible Materials:	Oxidizing agents
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide. Oxides of potassium
Other Information	

Non-corrosive in presence of glass.

#### Special Remarks on Corrosivity: No information available

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Principal Routes of Exposure: Inhalation. Ingestion.

#### Acute Toxicity

Corrosivity:

#### **Component Information**

Product code: PO178

Potassium Gluconate, Anhydrous				
CAS No 299-27-4   LD50/oral/rat = 10380 mg/kg Oral LD50 Rat   LD50/oral/mouse = 9100 mg/kg   LD50/dermal/rabbit = No information available   LD50/dermal/rat = No information available   LC50/inhalation/rat = No information available   LC50/inhalation/mouse = No information available   DC50/inhalation/mouse = No information available   DC50/inhalation/mouse = No information available   Dther LD50 or LC50information = No information available				
Product Information				
LD50/oral/rat = Value - Acute Toxicity = 103	80 mg/kg			
LD50/oral/mouse = Value - Acute Tox = 9100 m	g/kg			
LD50/dermal/rabbit Value - Acute Toxicity = No	information available			
LD50/dermal/rat VALUE - Acute Tox = No info	ormation available			
LC50/inhalation/rat VALUE-Vapor = No information VALUE-Gas = No information VALUE-Dust/Mist = No inform	available			
LC50/Inhalation/mouse VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available				
<u>Symptoms</u>				
Skin Contact:	May cause skin irritation.			
Eye Contact:	May cause eye irritation.			
Inhalation	May cause respiratory tract irritation.			
Ingestion May cause digestive (gastointestinal) tract irritation. May cause nausea, vomiting, diarrhea, abdominal discomfort, and pallor. May cause hypokalemia. May affect behavior/central nervous system/nervous system (altered sleep time, listlessness, weakness, muscular cramps, numbness of extremities, cardiovasular system (hypotension, dysrhythmias), urinary system/kidneys (renal failure, tubular necrosis.				
Aspiration hazard	No information available.			
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Chronic Toxicity	Prolonged and repeated ingestion may cause weight loss or anorexia. Prolonged or repeated ingestion may affect the urinary system.			
Sensitization:	No information available.			

Product code: PO178	Product name: POTASSIUM	<b>Page</b> 6 / 11
	GLUCONATE, ANHYDROUS, USP	_

#### Mutagenic Effects:

#### No information available

Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Potassium Gluconate, Anhydrous	299-27-4	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	No information available.
STOT - repeated exposure	No information available.
Target Organs:	Lungs. Kidneys. Mucous membrane.

#### **12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available 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

Component	CAS No	RCRA - F Series	RCRA - K Series	RCRA - P Series	RCRA - U Series
Product code: PO178	G	<b>Product name:</b> F LUCONATE, ANH			<b>Page</b> 7 / 11

		Wastes	Wastes	Wastes	Wastes
Potassium Gluconate, Anhydrous	299-27-4	None	None	None	None

#### **14. TRANSPORT INFORMATION**

#### DOT

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
	No information available
Subsidiary Class	
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available
Symbol(s):	No information available
	No information available
Description:	No information available
TDG (Canada)	Not Dogulato -
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No Information available
Description:	No information available
Description.	
ADR	
UN Number	Not regulated
	No information available
Proper Shipping Name:	
Transport hazard class(es)	No information available
Packing group	No information available
Subsidiary Risk:	No information available
IMDG	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Marine Pollutant	No information available
Marine Fondant	
RID	
UN Number	Not Regulated
	No information available
Proper Shipping Name:	
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
ICAO (air)	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
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ΙΑΤΑ	
UN Number	Not Regulated
Proper Shipping Name:	No information available
Transport hazard class(es)	No information available
Subsidiary Risk:	No information available
Packing group	No information available
Precautionary Statements -	No information available
Response	
Special Provisions	No information available
Transport hazard class(es) Subsidiary Risk: Packing group Precautionary Statements - Response	No information available No information available No information available No information available

#### **15. REGULATORY INFORMATION**

#### **International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
Potassium Gluconate, Anhydrous	299-27-4	PresentACTIV E	Present KE-17677	Present	Present (2)-3912	Present	Present	Present 206-074-2

#### **U.S. Regulations**

Potassium Gluconate, Anhydrous

FDA - 21 CFR - Total Food Additives Present (not regulated under 21 CFR)

- List Sourced from EAFUS

#### 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)

<u>Chemicals Known to the State of California to Cause Reproductive Toxicity:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Component	CAS No	Carcinogen	Developmental Toxicity		Female
					Reproductive
				Toxicity	Toxicity:
Potassium Gluconate, Anhydrous	299-27-4	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Component	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
Potassium Gluconate, Anhydrous	299-27-4	None	None	None	None	None

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

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	
Potassium Gluconate, Anhydrous	299-27-4	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

#### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)
Potassium Gluconate, Anhydrous	299-27-4	Present	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
Potassium Gluconate, Anhydrous	299-27-4	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Potassium Gluconate, Anhydrous	299-27-4	Not listed

#### **EU Classification**

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

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Potassium Gluconate, Anhydrous	299-27-4	

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

#### R-phrase(s)

not determined (not applicable)

#### S -phrase(s)

none

Component	CAS No	 Concentration Limits:	Safety Phrases
Potassium Gluconate, Anhydrous	299-27-4	No information	

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

Indication of danger: None

#### **16. OTHER INFORMATION**

Preparation Date: Revision date Prepared by:	08/26/2015 6/18/2019 Sonia Owen	
Disclaimer:	All chemicals may pose unknown hazards and should be us Safety Data Sheet (SDS) applies only to the material as particles is combined with other materials, deteriorates, or becomes pose hazards not mentioned in this SDS. The physical pro-	ackaged. If this product s contaminated, it may
Product code: PO178	<b>Product name:</b> POTASSIUM GLUCONATE, ANHYDROUS, USP	<b>Page</b> 10 / 11

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

## spectrum

#### 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
PO178	Potassium Gluconate, Anhydrous, 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:2020632Spectrum-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 <u>qualityassurance@spectrumchemical.com</u>

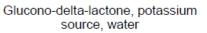
Sincerely,

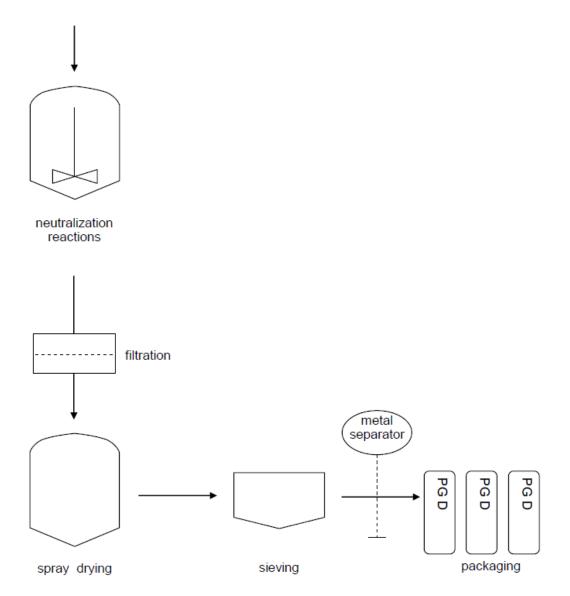
Oulu Clamy

Oralia Chavez Quality Assurance Specialist



### Manufacturing Process Flowchart Potassium Gluconate, Anhydrous, USP (Cat# PO178)





CORPORATE HEADQUARTERS

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New Brunswick, NJ 08901

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FAX 732.246.7132

WEST COAST FACILITY 14422 South San Pedro Street Gardena, California 90248 PHONE 310.516.8000

FAX 310.516.9843

AN ISO 9001:2015 REGISTERED COMPANY

# **Spectrum**<sup>®</sup> **PO178**, Potassium Gluconate, Anhydrous, USP

#### **Source Statement**

The above mentioned catalog item is manufactured by chemical synthesis using plant derived material (fermentation of glucose syrup). No animal 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 or ethylene oxide (EtO).

#### **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

## spectrum®

#### RE: Elemental Impurities - Potassium Gluconate, Anhydrous, USP (Cat# PO178)

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 <u>TechServices@spectrumchemical.com.</u>

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

AN ISO 9001:2015 REGISTERED COMPANY

## spectrum®

#### RE: Residual Solvents - Potassium Gluconate, Anhydrous, USP (Cat# PO178)

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 the USP <467> Residual Solvents and the ICH Q3C Residual Solvents Guideline. No Class 1, Class 2, Class 3 or other solvents are used or produced in the manufacture of this product.

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 <u>TechServices@spectrumchemical.com</u>.

Sincerely,

Technical Services Spectrum Chemical Mfg. Corp.

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

#### CORPORATE HEADQUARTERS

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#### WEST COAST FACILITY

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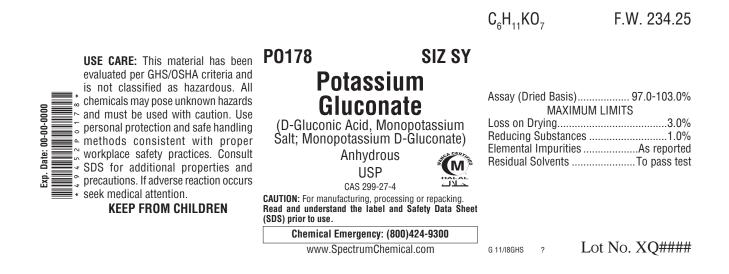
AN ISO 9001:2015 REGISTERED COMPANY

www.spectrumchemical.com

# spectrum®

### **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. Below you will find a typical label example for this catalog item.



#### Spectrum Chemical Mfg Corp

Corporate Headquarters:

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