

Safety Data Sheet

acc. to OSHA HCS

Revision date: 12/03/2025

1 Identification

- **Product identifier**
- **Product Name:** ESI/APCI Positive Ion Performance Standard (5 x 1mL)
- **Other means of identification**
- **Part no. :** G1946-85004
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Agilent Technologies, Inc.
5301 Stevens Creek Blvd.
Santa Clara, CA 95051 USA
- **Information department:**
Telephone: 800-227-9770
e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flammable liquids 2

H225 Highly flammable liquid and vapor.



GHS07

Eye irritation 2A

H319 Causes serious eye irritation.

Specific target organ toxicity (single exposure) 3 H336 May cause drowsiness or dizziness.

- **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger

- **Hazard-determining components of labeling:**

propan-2-ol

- **Hazard statements**

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P261 Avoid breathing vapors.

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Revision date: 12/03/2025

Product Name: ESI/APCI Positive Ion Performance Standard (5 x 1mL)

(Contd. of page 1)

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P240 Ground / bond container and receiving equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharge.

P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P312 Call a poison center/doctor if you feel unwell.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use CO₂, powder or water spray to extinguish.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Information pertaining to particular dangers for man and environment:

- Classification system:

- NFPA ratings (scale 0 - 4)



Health = 2
Fire = 3
Reactivity = 0

- HMIS-ratings (scale 0 - 4)

HEALTH	2	Health = 2
FIRE	3	Fire = 3
REACTIVITY	0	Reactivity = 0

- Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

- Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

- Chemical characterization: Mixtures

- Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 3)

US

Safety Data Sheet

acc. to OSHA HCS

Revision date: 12/03/2025

Product Name: ESI/APCI Positive Ion Performance Standard (5 x 1mL)

(Contd. of page 2)

· Dangerous components:

67-63-0	propan-2-ol
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30-60%

* 4 First-aid measures

- Description of first aid measures**
- General information:** Immediately remove any clothing soiled by the product.
- After inhalation:** Supply fresh air; consult doctor in case of complaints.
- After skin contact:** Immediately rinse with water.
- After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing:** If symptoms persist consult doctor.
- Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* 5 Fire-fighting measures

- Extinguishing media**
- Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- Special hazards arising from the substance or mixture** No further relevant information available.
- Advice for firefighters**
- Protective equipment:** No special measures required.

* 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- Environmental precautions:**
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
- Protective Action Criteria for Chemicals**

· PAC-1:

67-63-0	propan-2-ol
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400 ppm

· PAC-2:

67-63-0	propan-2-ol
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2000* ppm

· PAC-3:

67-63-0	propan-2-ol
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12000** ppm

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 4)

US

Safety Data Sheet

acc. to OSHA HCS

Revision date: 12/03/2025

Product Name: ESI/APCI Positive Ion Performance Standard (5 x 1mL)

(Contd. of page 3)

See Section 13 for disposal information.

* 7 Handling and storage

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions:

Keep receptacle tightly sealed.
Store in cool, dry conditions in well sealed receptacles.

· Specific end use(s) No further relevant information available.

* 8 Exposure controls/personal protection

· Control parameters

· Components with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol

PEL	Long-term value: 980 mg/m ³ , 400 ppm
REL	Short-term value: 1225 mg/m ³ , 500 ppm Long-term value: 980 mg/m ³ , 400 ppm
TLV	Short-term value: 984 mg/m ³ , 400 ppm Long-term value: 491 mg/m ³ , 200 ppm BEI, A4

· Ingredients with biological limit values:

67-63-0 propan-2-ol

BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)
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· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

· Appropriate engineering controls No further data; see section 7.

· Personal protective equipment:

· General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

(Contd. on page 5)

US

Safety Data Sheet

acc. to OSHA HCS

Revision date: 12/03/2025

Product Name: ESI/APCI Positive Ion Performance Standard (5 x 1mL)

(Contd. of page 4)

· Breathing equipment:

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· Protection of hands:

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

· Material of gloves

For normal use: nitrile rubber, 11-13 mil thickness

For direct contact with the chemical: butyl rubber, 12-15 mil thickness

· Penetration time of glove material

For normal use: nitrile rubber: 1 hour

For direct contact with the chemical: butyl rubber: >4 hours

· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Physical state

Liquid

· Color:

According to product specification

· Odor:

Characteristic

· Odor threshold:

Not determined.

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

82 °C (179.6 °F)

· Flammability:

Highly flammable.

· Explosion limits:

2 Vol %

· Lower:

12 Vol %

· Upper:

12 °C (53.6 °F)

· Flash point:

425 °C (797 °F)

· Auto igniting:

Not determined.

· Decomposition temperature:

Not determined.

· pH-value:

Not determined.

· Viscosity:

Not determined.

· Kinematic:

Not determined.

· Dynamic:

Not determined.

· Solubility in / Miscibility with

Fully miscible.

· Water:

Not determined.

· Partition coefficient (n-octanol/water):

35 hPa (26.3 mm Hg)

· Vapor pressure:

Not determined.

· Density:

(Contd. on page 6)

US

Safety Data Sheet

acc. to OSHA HCS

Revision date: 12/03/2025

Product Name: ESI/APCI Positive Ion Performance Standard (5 x 1mL)

(Contd. of page 5)

· Relative density	Not determined.
· Vapor density	Not determined.
· Particle characteristics	Not applicable.
· Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Solvent content:	
· Organic solvents:	44.0 %
· Water:	56.0 %
· VOC content:	44.01 %
· Solids content:	440.1 g/l / 3.67 lb/gal
· Change in condition	0.0 %
· Evaporation rate	Not determined.

10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

67-63-0 propan-2-ol		
Oral	LD50	4,710 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rat)
		12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	72.6 mg/L (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

(Contd. on page 7)

US

Safety Data Sheet

acc. to OSHA HCS

Revision date: 12/03/2025

Product Name: ESI/APCI Positive Ion Performance Standard (5 x 1mL)

(Contd. of page 6)

- **Interactive effects** No interactive effects between components are known.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

67-63-0	propan-2-ol	3
50-55-5	reserpine	3

- **NTP (National Toxicology Program)**

50-55-5	reserpine	R
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- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

* 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects**

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

* 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

* 14 Transport information

- **Not Regulated, De minimis Quantities**

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- **UN-Number**

- **DOT, IMDG, IATA**

UN1993

(Contd. on page 8)

US

Safety Data Sheet

acc. to OSHA HCS

Revision date: 12/03/2025

Product Name: ESI/APCI Positive Ion Performance Standard (5 x 1mL)

(Contd. of page 7)

· UN proper shipping name	Flammable liquids, n.o.s. (Isopropanol) FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
· Transport hazard class(es)	
· DOT	
	
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	II
· Environmental hazards:	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Special precautions for user	Warning: Flammable liquids
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E,S-E
· Stowage Category	B
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, II

US

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Revision date: 12/03/2025

Product Name: ESI/APCI Positive Ion Performance Standard (5 x 1mL)

(Contd. of page 8)

15 Regulatory information	
<ul style="list-style-type: none">Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.	
<ul style="list-style-type: none">Sara	
<ul style="list-style-type: none">Section 355 (extremely hazardous substances): None of the ingredients is listed.	
<ul style="list-style-type: none">Section 313 (Specific toxic chemical listings): 67-63-0 propan-2-ol	
<ul style="list-style-type: none">TSCA (Toxic Substances Control Act): All components have the value ACTIVE.	
<ul style="list-style-type: none">Hazardous Air Pollutants None of the ingredients is listed.	
<ul style="list-style-type: none">Proposition 65	
<ul style="list-style-type: none">Chemicals known to cause cancer: 50-55-5 reserpine	
<ul style="list-style-type: none">Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.	
<ul style="list-style-type: none">Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.	
<ul style="list-style-type: none">Chemicals known to cause developmental toxicity: None of the ingredients is listed.	
<ul style="list-style-type: none">Carcinogenic categories	
<ul style="list-style-type: none">EPA (Environmental Protection Agency) None of the ingredients is listed.	
<ul style="list-style-type: none">TLV (Threshold Limit Value) 67-63-0 propan-2-ol A4	
<ul style="list-style-type: none">NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed.	
<ul style="list-style-type: none">Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation.
No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

- Date of previous version** 03/09/2021
- Version number of previous version:** 5
- Date of preparation** 12/03/2025

- Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances

(Contd. on page 10)

US

Safety Data Sheet acc. to OSHA HCS

Revision date: 12/03/2025

Product Name: ESI/APCI Positive Ion Performance Standard (5 x 1mL)

(Contd. of page 9)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flammable liquids 2: Flammable liquids – Category 2

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.

US