

Product:	Sucralose	Document No:	Sucralose PD 1
CAS No:	56038-13-2	Product Code:	48170-81-93
Chemical Formula:	C ₁₂ H ₁₉ Cl ₃ O ₈	Released By:	Gert Strand
Manufacturer:	Gert Strand AB	Document Issue Date:	April 30 2025

SPECIFICATION SHEET

1. PRODUCT DESCRIPTION

Sucralose is a sweet, white to off-white, odorless, crystalline powder. It is freely soluble in water, in alcohol and slightly soluble in ethyl acetate. It is suitable for human consumption as a high-intense, non-nutritive sweetener and flavor enhancer.

2. PROPERTIES

2.1 Synonym	1,6 -Dichloro-1,6-dideoxy-β-D-fructofuranosyl-4-chloro-4-deoxy-α-D-galactopyranoside
2.2 Molecular Formula	C ₁₂ H ₁₉ Cl ₃ O ₈
2.3 Molar Mass	397.63 g/mol
2.4 Solubility in Water	30% w/v at 25°C

3. TEST AND SPECIFICATION (Tests according to current FCC/USP/NF/E 955/EP/BP/JECFA for Sucralose)

TEST ITEMS	STANDARD LIMITS	TEST METHODS
Identification		
(A) Identify (IR)	The spectrum of the sample exhibits the same as that of the reference standard.	Current FCC/USP/NF/ E 955/EP/BP
(B) Identify (HPLC)	The retention time of the sample is the same as that of the standard.	Current FCC/ USP/NF
(C) Identity (TLC)	The R _f value of the sample is the same as that of the standard.	Current FCC/USP/NF/ E 955
Assay	98.0% - 102.0% of C ₁₂ H ₁₉ Cl ₃ O ₈ on the anhydrous basis	Current FCC/USP/NF/ E 955/EP/BP
Lead	NMT 1mg/kg	Current FCC/ E 955 GB25531-2010&GB500 9.12-2017
Methanol	NMT 0.1%	Current FCC/USP/NF/ E 955/EP/BP
Hydrolysis Products (Chlorinated Monosaccharide) (Impurities H and I)	Passes test (NMT 0.1%)	Current FCC/USP/NF/ E 955/EP/BP

POSTADDRESS POSTAL ADDRESS Svarvareg 3 SE 233 51 Svedala	E-POST/E-MAIL kontakt@gertstrand.se	EORI NUMBER SE5561713420	MOMSNUMBER VAT-REGISTRATION SE 556171342001	CO REG NUMBER 556171-3420
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Optical (Specific) Rotation $[\alpha]_D^{20}$	Between +84.0° to 87.5° (0.01g/mL, calculated on the anhydrous basis)	Current FCC/ USP/NF/ E 955/EP/BP
Related Substances (Other chlorinated disaccharides)	Passes test (NMT 0.5%)	Current FCC/USP/NF/ E955/EP/BP
Residue on Ignition (Sulphated Ash)	NMT 0.7%	Current FCC/USP/NF/ E 955/EP/BP
Water	NMT 2.0%	Current FCC/USP/NF/ E 955/EP/BP
Heavy Metals (as Pb)	NMT 0.001%	Current USP/NF/EP/BP
Triphenylphosphine Oxide	NMT 150 mg/kg	Current JECFA

4. ADDITIONAL TEST AND SPECIFICATIONS

TEST ITEMS	STANDARD LIMITS	TEST METHODS
Arsenic	NMT 1mg/kg	GB 5009.11-2014
Mercury	< 0.1mg/kg	GB 5009.17-2014
Cadmium	< 0.1mg/kg	GB 5009.15-2014
pH (10% aqueous solution)	5.0~7.0	KH-CX(17)/i-SU(10)
Organoleptic	Passes test	GB 25531-2010
Particle Size	95% < 250 µm	KH-CX(17)/i-SU(20)

5. MICROBIOLOGICAL TEST AND SPECIFICATIONS

TEST ITEMS	STANDARD LIMITS	TEST METHODS
Total Aerobic Count	NMT 250cfu/g	GB 4789.2-2016
Molds and Yeasts	NMT 50cfu/g	GB 4789.15-2016
Total Coliforms	Negative to test (<10cfu/g)	GB 4789.3-2016
Escherichia Coli	Negative to test (<10cfu/g)	GB 4789.38-2012
Staphylococcus Aureus	Negative to test (Absent in 25g)	GB 4789.10-2016
Salmonella Species	Negative to test (Absent in 25g)	GB 4789.4-2016
Pseudomonas Aeruginosa	Negative to test (Absent in 25g)	SN/T 2099-2008

6. CERTIFICATIONS

6.1 Sucralose complies with FCC, USP/NF, JECFA, E955 (EC), EP, BP.

The product is in accordance with regulation (EC) 1334/2008.

6.2 Kosher

Sucralose is certified as Kosher.

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6.3 Halal

Sucralose is certified as Halal.

6.4 Allergens

This product does not contain any commonly known allergens. No special labeling is required under the current regulations issued by the FDA or the EU.

6.5 Genetically Modified Organisms (GMOs)

This product is not generated from ingredients or processing aids derived from GMOs. It is a GMO free material.

6.6 Bovine spongiform encephalopathy (BSE)

No animal derived ingredients are employed in the production of Sucralose or found in the facility where Sucralose is manufactured.

7. PACKAGING, HANDLING, STORAGE AND MARKING

7.1 Supplier Packaging

This product is packed in materials that provide adequate, securely sealed protection, and is free from foreign substances, which is then packaged on clean, undamaged GMA 1 pallets.

7.2 Handling and Storage Conditions

Sucralose should be stored in a Controlled Room with temperature below 77°F (25°C) as defined by USP/NF. Storage temperature should not exceed 95°F (35°C) for more than 72 hours in succession. Sucralose should be stored in a well-closed container in a dry place, and also away from odoriferous materials. Reseal left over materials for future usage.

Notice: Do not expose to direct sunlight.

7.3 Package Label

The package label includes manufacturer's information, product name, CAS number, storage requirement, product code, lot number, net weight, quantity, production date, expiry date, drum number, manufacturer's contact information and specific transportation requirement.

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8. TESTING REQUIREMENTS

- 8.1 A Certificate of Analysis (COA) according to Section 3, 4 and 5 is provided with each shipment.
- 8.2 If customer testing is necessary, we suggest that Sucralose assay and organoleptics should be used. Both tests will provide the most information about the product without performing the entire set of tests listed in Section 3.

9. SHELF LIFE

It is recommended that Sucralose should be used within 3 years of the date of manufacture when it is preserved under the conditions listed in Section 7.2. The product can still be used as food additive if the analysis shows the results are within the standard limits mentioned above after the shelf life expires.

10. SAFETY MEASUREMENTS

Please read the Material Safety Data Sheet.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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