TECHNICAL DATA SHEET

Glucono Delta Lactone

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Gluconolactone
Chemical formula	$C_6H_{10}O_6$
Description	Polyhydroxy acid (PHA) a neutral cyclic ester of gluconic acid. It is produced by an aerobic oxidative fermentation of glucose, plant origin.
Raw material category	Ingredients for cosmetics; generally used as a moisturiser and humectant in skin care formulations and hair care products, acidifier, preservative booster
Molecular weight	178.15

TECHNICAL DATA

Physical and chemical parameters

Appearance	Solid, fine granular crystalline powder
Color	White
Odor	Nearly odorless
Assay	99.0 - 100.5 %
Water	Max 0.15 %
Chloride	Max 50 mg/kg
Sodium	Max 30 mg/kg
Ash	< 0.10 %
Reducing substances	Max 0.5 %
Melting point	152 +/- 2°C
Solubility	Soluble in water (ca. 50 % w/w) and is sparingly soluble in ethanol

Biological parameters

Aerobic Bacterial Count	< 100 cfu/g
Yeasts and Molds	< 10 cfu/g
Enterobacteries	absence

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Contaminants

Lead	Max 1 mg/kg
Heavy metals	< 10 mg/kg

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in a cool and dry place, protected from light in tightly closed original container.
Shelf Life	36 months under good storage conditions

LEGISLATION

Certification	Classified as 100% natural origin and can be used in the formulation of personal care products certified according to the COSMOS Cosmetic Standard and to the ECOCERT Natural and Organic Cosmetic Standard, Halal and Kosher certified at manufacturer.
CMR	This product is free from substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR) of category 1A, 1B or 2 under Part 3 of Annex VI to Regulation (EC) No 1272/2008
Nanomaterials	This product is not considered as a nanomaterial, and doesn't contain nanoparticles as defined by the European commission and as described in EU n°1223/2009 and 2012-232 (ANSES).
Animal testing	This product has not been tested on animals.
GMO	During the production no GMOs and derivatives from GMOs are used. All reasonable measures have been taken to avoid cross-contamination with GMOs or derivatives from GMOs.
EINECS	202-016-5
CAS	90-80-2

DISCLAIMER

All warranty claims in respect to the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the results of the manufacturer or our supplier quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when dispatched from the works. We recommend you perform your own quality and or identification checks on receipt.