

**TECHNICAL DATA SHEET**

Effective date: 04.2019

Vitamin C (ascorbic acid)

INFORMATION ON SUBSTANCE / MIXTURE

INCI	Ascorbic acid
Manufacturing process	-

TECHNICAL DATA**Physical parameters**

Appearance	Solid, crystalline powder
Color	White or almost white
Odor	Characteristic
Solubility	Soluble in water
Identification	IR: Complies ; CA: Positive
Melting point	Approx. 190 °C
Specific rotation	+20.5 ° ~ +21.5 °
Acidity (pH)	2.1 ~ 2.6 (5% aqueous solution) 2.4 ~ 2.8 (2% aqueous solution)
Assay	99.0 % ~ 100.5 %
Loss on Drying	≤ 0.40 %
Clarity of Solution	Clear
Color of Solution	≤ BY7
Particle-Size	≤ 30% more than 40 mesh ≥ 45% between 40 and 80 mesh

Chemical parameters

Chemical formula	C ₆ H ₈ O ₆
Molar mass	176.1 g/mol
Oxalic acid (Impurity E)	≤ 0.2 %

Contaminants

Impurity C, D	≤ 0.15 %
Unspecified impurities	≤ 0.10 %

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Total Impurities other than C, D	≤ 0.2 %
Heavy metals	≤ 10 ppm
Copper	≤ 5 ppm
Iron	≤ 2 ppm
Lead	≤ 2 ppm
Mercury	≤ 1 ppm
Sulphated ash	≤ 0.1 %
Residual solvents: Methanol	≤ 0.3 %

TRANSPORT, STORAGE and SHELF LIFE

Storage conditions	Store in a non-metallic containers, protected from light
Shelf Life	36 months, in closed packaging and the recommended conditions.
Custom tariff	-

LEGISLATION

Certification	-
EINECS	-
CAS	50-81-7
REACH pre-registration no.	-

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