

# CERTIFICATE OF ANALYSIS

(Certificate No. KMA017007-01)

Release Date: 29/08/2024

Re-test Date: 28/08/2027

## Ascorbic Acid EP Impurity D

### Identification

**Chemical Name :**

Methyl L-xylo-hex-2-ulosonate (as per EP)

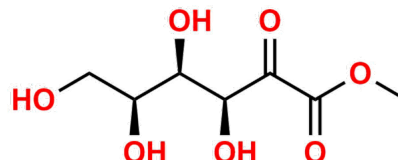
**Alt. Name** : Methyl L-sorbosonate (EP)

**CAT No.** : KMA017007

**CAS No.** : 3031-98-9

**Molecular Formula** : C<sub>7</sub>H<sub>12</sub>O<sub>7</sub>

**Molecular Weight** : 208.2



### Analytical Information

**Batch No.** : ASC-EPD-045-114

**Description** : Off White Solid

**HPLC Purity** : 97.40 %

**Weight Loss By TGA** : 0.24 %

**% Potency** : 97.17 %

**Solubility** : ACN : WATER (75 :25)

**Mass** : Confirm

**IR** : Confirm

**<sup>1</sup>H NMR** : Confirm

### Additional Information

**Long Term Storage** : Store at 2-8 deg. C for long term storage

**Shipping Condition** : Product is stable to be Shipped at Room Temperature

**% Potency** = [100 - 0.24(Weight Loss By TGA)] x [97.40(HPLC Purity)]/100 = 97.17 %  
-Re-tested on 29.08.2024.

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		30/08/2024
Reviewed & Approved By	Quality Control	Jatin Patel		30/08/2024

**Attachments** : COA, HPLC, MASS, <sup>1</sup>HNMR, IR and TGA