



Certificate of Analysis

ASEAN Reference Substance (ARS)

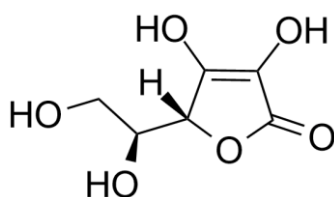
Issued by ASEAN Reference Substances Working Group (ARSWG)

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ASCORBIC ACID

Control No. M 223122



CAS No. : 50-81-7
Molecular Formula : C₆H₈O₆
Molecular Weight : 176.12

Description	: A White, crystalline powder
Identification	
Infrared absorption	: Concordant with the reference spectrum of Ascorbic acid USPRS
Reduction of alkaline cupric tartrate TS	: The sample solution reduces alkaline cupric tartrate TS upon heating by producing red solution and red precipitate
Specific optical rotation	: +20.5° to +21.5° (10% solution in carbon dioxide-free water)
Assay	: 99.68% of C ₆ H ₈ O ₆ , calculated on the as is basis, determined by direct titration method
Intended use	: For chemical assay and identification
Direction for use	: Do not dry before use
Storage	: Keep container tightly closed and protected from light, preferably at the temperature 2-8 °C

Date of Adoption : 27 November 2023
Next Retest Date : 27 November 2026