

# CERTIFICATE OF ANALYSIS

(Certificate No. KMH003010-02)

Release Date: 05/07/2025

Re-test Date: 04/07/2028

## Hydrochlorothiazide Impurity A

### Identification

**Chemical Name :**

6-Chloro-2H-1,2,4-benzothiadiazine-7-sulfonamide 1,1-dioxide

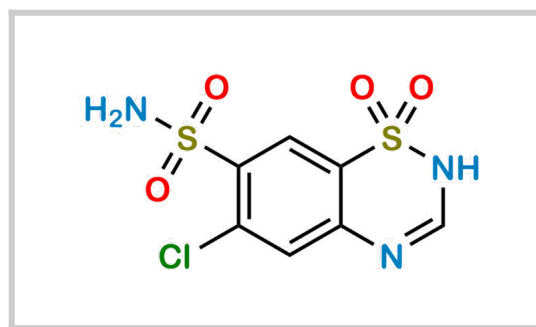
**Alt. Name** : 3,4-Dehydro Hydrochlorothiazide ;  
Chlorothiazide (USP)

**CAT No.** : KMH003010

**CAS No.** : 58-94-6

**Molecular Formula** : C<sub>7</sub>H<sub>6</sub>ClN<sub>3</sub>O<sub>4</sub>S<sub>2</sub>

**Molecular Weight** : 295.7



### Analytical Information

**Batch No.** : H003010-102-114

**Description** : White Solid

**HPLC Purity** : 99.98 %

**Weight Loss By TGA** : 0.08 %

**% Potency** : 99.9 %

**Solubility** : ACN : Water (1:1)

**Mass** : Confirm

**IR** : Confirm

**1H NMR** : Confirm

**13C 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 - 0.08(Weight Loss By TGA)] x [99.98(HPLC Purity)]/100 = 99.9 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Payal Kapuriya		09/07/2025
<b>Reviewed &amp; Approved By</b>	Quality Control	Viraj Akabari		09/07/2025

**Attachments** : COA, HPLC, MASS, 1HNMR, 13CNMR, IR and TGA