

# CERTIFICATE OF ANALYSIS

(Certificate No. KMO001006-01)

Release Date: 22/02/2024

Re-test Date: 21/02/2027

## ESOMEPRAZOLE THIOL IMPURITY

### Identification

**Chemical Name :**

5-methoxy-1H-benzo[d]imidazole-2-thiol

**Alt. Name**

: Esomeprazole EP Impurity A ,  
Omeprazole USP Related Compound B

**CAT No.**

: KMO001006

**CAS No.**

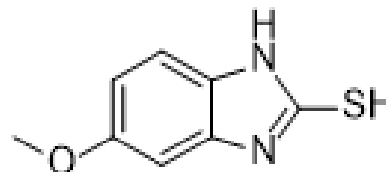
: 37052-78-1

**Molecular Formula**

: C<sub>8</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>S

**Molecular Weight**

: 180.23



### Analytical Information

**Batch No.**

: OME-EPA-073-062

**Solubility**

: ACN : Water (1:1)

**Description**

: Off White Solid

**Mass**

: Confirm

**HPLC Purity**

: 99.66 %

**IR**

: Confirm

**Weight Loss By TGA**

: 0.04 %

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

: Confirm

**% Potency**

: 99.62 %

### 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 - 0.04(Weight Loss By TGA)] x [99.66(HPLC Purity)]/100 = 99.62 %

**Recommendation**

: Released

	Department	Name	Signature	Date
Prepared By	Analytical	Parag Patel		22/02/2024
Reviewed & Approved By	Quality Control	Jatin Patel		22/02/2024

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