

# CERTIFICATE OF ANALYSIS

(Certificate No. KMC029001-01)

Release Date: 11/04/2024

Re-test Date: 10/04/2027

## N-Nitroso Carbamazepine EP Impurity E

### Identification

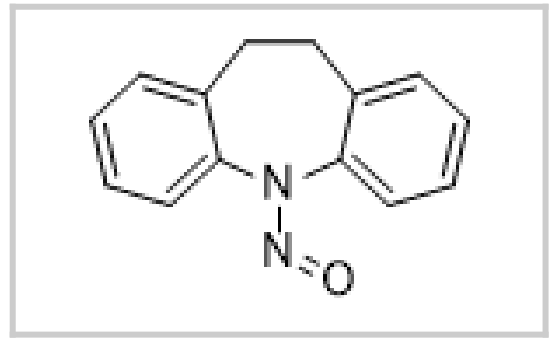
**Chemical Name :**  
5-nitroso-10,11-dihydro-5H-dibenzo[b,f]azepine

**CAT No. :** KMC029001

**CAS No. :** 7458-08-4

**Molecular Formula :** C<sub>14</sub>H<sub>12</sub>N<sub>2</sub>O

**Molecular Weight :** 224.26



### Analytical Information

**Batch No. :** CAR-EPE-NO-073-164

**Description :** Light Yellow Solid

**HPLC Purity :** 93.10 %

**Weight Loss By TGA :** 0.03 %

**% Potency :** 93.07 %

**Solubility :** ACN

**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 - 0.03(Weight Loss By TGA)] x [93.10(HPLC Purity)]/100 = 93.07 %

**Recommendation :** Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		11/04/2024
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		11/04/2024

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