

# CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001048-01)

Release Date: 19/03/2026

Re-test Date: 18/03/2029

## Quetiapine EP Impurity O

### Identification

**Chemical Name :**

11-[4-[2-[2-(Triphenylmethoxy)ethoxy]ethyl]piperazin-1-yl]dibenzo[b,f][1,4]thiazepine (as per EP)

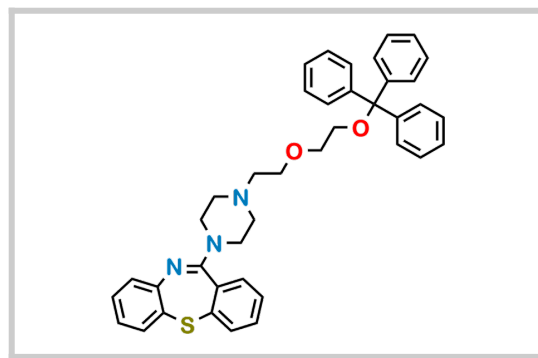
**Alt. Name** : Quetiapine O-Triptyl Impurity

**CAT No.** : KMQ001048

**CAS No.** : 844639-06-1

**Molecular Formula** : C<sub>40</sub>H<sub>39</sub>N<sub>3</sub>O<sub>2</sub>S

**Molecular Weight** : 625.8



### Analytical Information

**Batch No.** : Q001048-114-205

**Description** : Light Yellow Solid

**HPLC Purity** : 97.93 %

**Weight Loss By TGA** : 0.55 %

**% Potency** : 97.39 %

**Solubility** : Methanol

**Mass** : Confirm

**IR** : Confirm

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

**<sup>13</sup>C 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 - 0.55(Weight Loss By TGA)] x [97.93(HPLC Purity)]/100 = 97.39 %

**Recommendation** : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		19/03/2026
Reviewed & Approved By	Quality Control	Jatin Patel		19/03/2026

**Attachments** : COA, HPLC, MASS, <sup>1</sup>H NMR, <sup>13</sup>C NMR, IR and TGA