

# CERTIFICATE OF ANALYSIS

(Certificate No. KMQ001008-01)

Release Date: 27/05/2024

Re-test Date: 26/05/2027

## QTRC-2 (HEEP) IMPURITY STANDARD

### Identification

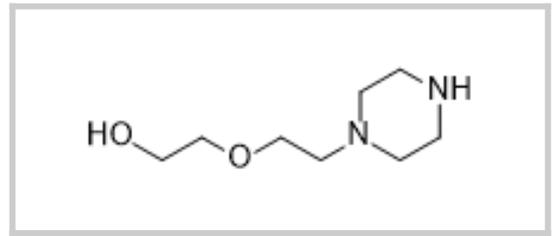
**Chemical Name :**  
2-(2-(piperazin-1-yl)ethoxy)ethanol

**CAT No. :** KMQ001008

**CAS No. :** 13349-82-1

**Molecular Formula :** C<sub>8</sub>H<sub>18</sub>N<sub>2</sub>O<sub>2</sub>

**Molecular Weight :** 174.24



### Analytical Information

**Batch No. :** QUE-HEEP-073-232

**Description :** Yellow Thick Syrup

**GC Purity :** 100.00 %

**Weight Loss By TGA :** 0.61 %

**% Potency :** 99.39 %

**Solubility :** MDC

**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 - 0.61(Weight Loss By TGA)] x [100.00(GC Purity)]/100 = 99.39 %

**Recommendation :** Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		17/03/2026
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		17/03/2026

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