

# CERTIFICATE OF ANALYSIS

(Certificate No. KMA018013-01)

Release Date: 15/06/2026

Re-test Date: 14/06/2029

## Atenolol EP Impurity E

### Identification

**Chemical Name :**

2,2'-[(2-Hydroxypropane-1,3-diyl)bis(oxy-4,1-phenylene)]diacetamide (as per EP & USP)

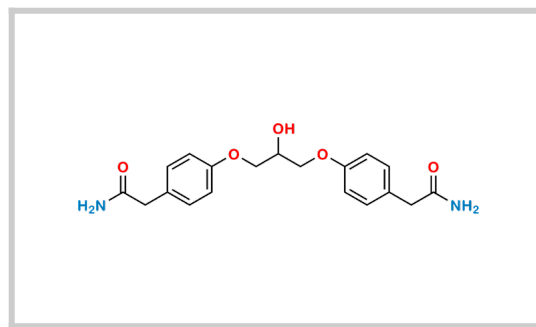
**Alt. Name** : Atenolol USP Related Compound E ;  
Atenolol Bis Ether

**CAT No.** : KMA018013

**CAS No.** : 141650-31-9

**Molecular Formula** : C19H22N2O5

**Molecular Weight** : 358.4



### Analytical Information

**Batch No.** : A018013-136-015

**Solubility** : DMSO

**Description** : Off White Solid

**Mass** : Confirm

**HPLC Purity** : 93.33 %

**IR** : Confirm

**Weight Loss By TGA** : 0.74 %

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

**% Potency** : 92.64 %

### 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 - 0.74(Weight Loss By TGA)] x [93.33(HPLC Purity)]/100 = 92.64 %

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		15/06/2026
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		15/06/2026

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