

# CERTIFICATE OF ANALYSIS

(Certificate No. KMB001088-01)

Release Date: 01/07/2025

Re-test Date: 30/06/2028

## RAC-BINAP

### Identification

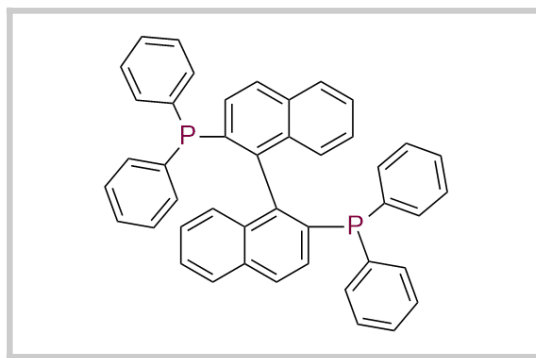
**Chemical Name :**  
(±)-2,2'-Bis(diphenylphosphino)-1,1'-binaphthyl

**CAT No.** : KMB001088

**CAS No.** : 98327-87-8

**Molecular Formula** : C<sub>44</sub>H<sub>32</sub>P<sub>2</sub>

**Molecular Weight** : 622.67



### Analytical Information

**Batch No.** : BRX-RAC-BI-030-129

**Description** : White Solid

**HPLC Purity** : 98.80 %

**Weight Loss By TGA** : 2.23 %

**% Potency** : 96.6 %

**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 - 2.23(Weight Loss By TGA)] x [98.80(HPLC Purity)]/100 = 96.6 %  
-Re-tested on 01.07.2025

**Recommendation** : Released

	Department	Name	Signature	Date
<b>Prepared By</b>	Analytical	Jignesh Patel		04/07/2025
<b>Reviewed &amp; Approved By</b>	Quality Control	Jatin Patel		04/07/2025

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