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### CERTIFICATE OF ANALYSIS

Analysis Date:

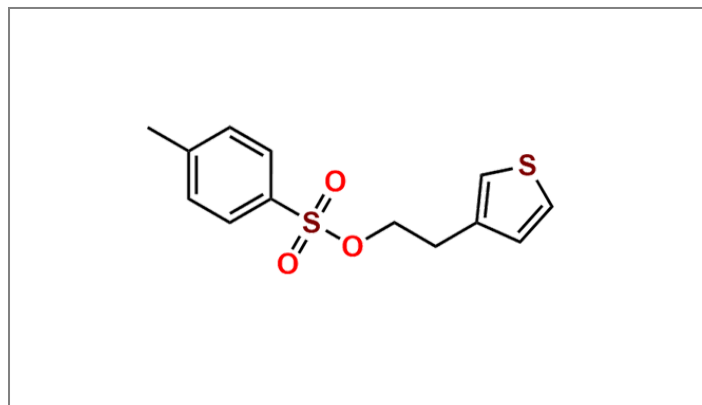
Re-test Date:

**Product Name: Clopidogrel Impurity 9**

#### Identification:

Chemical Name: 2-(Thiophen-3-yl)ethyl4-methylbenzenesulfonate

Synonyms : NA  
CAS Number : 40412-09-7  
CAT Number : CP-C2035  
Molecular Formula : C<sub>13</sub>H<sub>14</sub>O<sub>3</sub>S<sub>2</sub>  
Molecular Weight : 282.4



#### Analytical Information:

| Sr. No. | Test           | Result                   |
|---------|----------------|--------------------------|
| 1)      | Description    | Solid                    |
| 2)      | Solubility     | Soluble in Methanol/DMSO |
| 3)      | MASS By LCMS   | Confirm to structure     |
| 4)      | Purity By HPLC | >95%                     |
| 5)      | H1NMR          | Confirm to structure     |



**Prepared and Reviewed By**

Ms Priyanka Salunkhe  
(Manager QC Analytical)

**Approved By**

Ms Rohini Gagare  
(QA Head)

Note: Product supplied by Chemicea are for R&D purpose only and not for human consumptions.