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CERTIFICATE OF ANALYSIS

Analysis Date:

Re-test Date:

Product Name: Sufentanil Citrate EP Impurity A

Identification:

Chemical Name: N-[4-(Methoxymethyl)piperidin-4-yl]-N-phenylpropanamide, (as per EP)

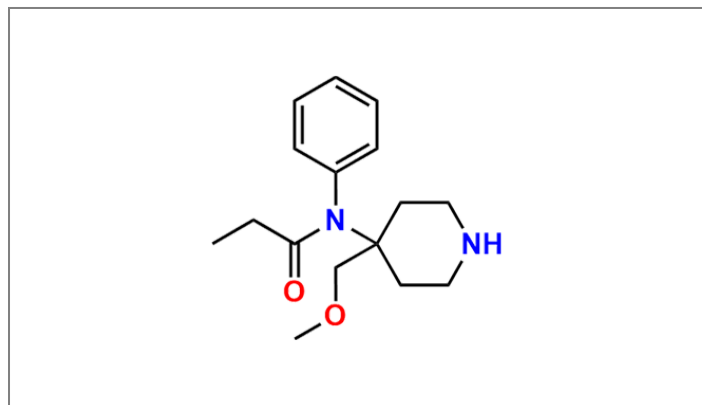
Synonyms : Noralfentanil

CAS Number : 61086-18-8

CAT Number : CP-S35001

Molecular Formula : C₁₆H₂₄N₂O₂

Molecular Weight : 276.38



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.