

Analysis Date: 01-01-2026

Re-test Date: 01-01-2029

ACETYL CYSTEINE IMPURITY 1 FREE BASE

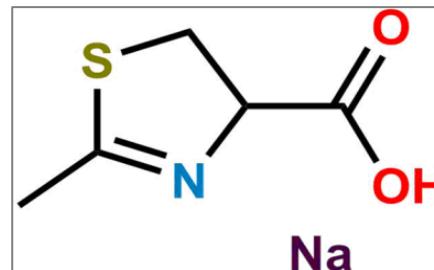
Identification

Chemical Name : 2-Methyl-4,5-dihydrothiazole-4-carboxylic acid

CAT No : ALL-ATY-RC6

CAS No : 84184-18-9

Molecular Formula : C5H7NO2S

Molecular Weight : 145.2


Analytical Information

Batch No : ALL-ATY-RC6 **HPLC Purity** : 98.00 %

Solubility : USP Diluent / EP Diluent (MEOH) **Potency** : 95.93 %

Appearance of Product : Off White Solid **Mass** : Confirm

Long Term Storage : -20°C **IR Analysis** : Confirm

Weight Loss By TGA : 0.906 % **1HNMR** : Confirm

Residue Of Ignition : 1.199%

Additional Information

$$\% \text{Potency} = [100 - (\text{Weight Loss By TGA \%} + \text{Residue Of Ignition \%}) \times \text{Chromatographic Purity \%}] / 100 =$$

$$[100 - (0.906 + 1.199) \times 98.00] / 100 = 95.93 \%$$

Recommendation : Released

| Department | Name | Signature |
|--------------------------|---|-----------|
| Prepared and Reviewed by | Analytical Mr. Vipul Khadase QA Officer | |
| Approved By | QA&QC Dr. Ashish Keche Director QA&QC | |

Attachment : HPLC, Mass, 1H NMR, IR

Shipping Condition : All Product are stable to be shipped at room temperature, unless otherwise specified

Corporate Office

Allmpus Laboratories Pvt Ltd 38, Solitaire Industrial Estate, Plot No.TS-1, Near Nandi Palace Hotel, MIDC-Phase 1, Dombivli (E), Mumbai, Maharashtra 421203