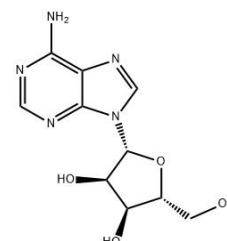


## Technical Data Sheet

### Adenosine

#### Compound Information

|                           |                                                               |
|---------------------------|---------------------------------------------------------------|
| <b>Product Name:</b>      | Adenosine                                                     |
| <b>CAS No.:</b>           | 58-61-7                                                       |
| <b>Molecular Formula:</b> | C <sub>10</sub> H <sub>13</sub> N <sub>5</sub> O <sub>4</sub> |
| <b>Molecular Weight:</b>  | 267.24                                                        |
| <b>Storage:</b>           | Store at 0 -8 °C                                              |
| <b>Revision Date:</b>     | 2026-04-15                                                    |



#### Analytical Information

| Tests                   | Specifications                                                                                                                                                   |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Appearance              | White crystalline powder                                                                                                                                         |
| Solubility              | Slightly soluble in water, soluble in hot water, practically insoluble in ethanol (96 per cent) and in methylene chloride. It dissolves in dilute mineral acids. |
| Melting Point           | 234-236 °C (lit.)                                                                                                                                                |
| Heavy Metals            | ≤10 ppm (as Pb)                                                                                                                                                  |
| Anion                   | Chlorides (Cl-) : ≤70 ppm, Sulphates (SO <sub>4</sub> <sup>2-</sup> ) : ≤200 ppm                                                                                 |
| Cation                  | Ammonia : ≤4 ppm                                                                                                                                                 |
| Yeast and Mold          | Total yeast/mold count : ≤ 100 CFU/g (TYMC)                                                                                                                      |
| Specific Rotation       | [α] <sub>D</sub> <sup>25</sup> = -68 to -72 ° (C = 2% in 5% NaOH)                                                                                                |
| LOD                     | ≤ 0.5%                                                                                                                                                           |
| Bacterial Endotoxins    | ≤ 50 EU/100 g                                                                                                                                                    |
| Microbial Count         | ≤ 100 CFU/g (TAMC)                                                                                                                                               |
| Related Substances      | Guanosine: ≤ 0.1%, Inosine: ≤ 0.1%, Uridine: ≤ 0.1%, Adenine: ≤ 0.2%                                                                                             |
| Residue On Ignition     | ≤ 0.1%                                                                                                                                                           |
| Purity by HPLC          | ≥ 99.5%                                                                                                                                                          |
| Specification Reference | Cell culture grade                                                                                                                                               |
| <a href="#">MS</a>      | Pass test                                                                                                                                                        |
| <a href="#">1H NMR</a>  | Pass test                                                                                                                                                        |
| <a href="#">13C NMR</a> | Pass test                                                                                                                                                        |
| <a href="#">IR</a>      | Pass test                                                                                                                                                        |
| <a href="#">Raman</a>   | Pass test                                                                                                                                                        |

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