

## Adenosine 5'-triphosphate (ATP) Disodium Salt

Cat. No. NATE-0945

Lot. No. (See product label)

### Introduction

**Description** Adenosine-5'-triphosphate is a nucleoside triphosphate used in cells as a coenzyme. It is often called the "molecular unit of currency" of intracellular energy transfer. ATP transports chemical energy within cells for metabolism. It is one of the end products of photophosphorylation, cellular respiration, and fermentation and used by enzymes and structural proteins in many cellular processes, including biosynthetic reactions, motility, and cell division. One molecule of ATP contains three phosphate groups, and it is produced by a wide variety of enzymes, including ATP synthase, from adenosine diphosphate (ADP) or adenosine monophosphate (AMP) and various phosphate group donors. Substrate level phosphorylation, oxidative phosphorylation in cellular respiration, and photophosphorylation in photosynthesis are three major mechanisms of ATP biosynthesis.

**Synonyms** ATP; ATP-Na<sub>2</sub>; ATP-II; ATP-2

### Product Information

<b>Form</b>	Crystalline
<b>CAS No.</b>	56-65-5
<b>Molecular Weight</b>	551.2
<b>Purity</b>	> 95% (Enzymatic)
<b>Contaminants</b>	PK: < 1.0% MK: < 1.0% LDH: < 1.0%
<b>Structure</b>	C <sub>10</sub> H <sub>14</sub> N <sub>5</sub> O <sub>13</sub> P <sub>3</sub> - Na <sub>2</sub>

### Storage and Shipping Information

**Storage** Store at -20°C