

	ATP solution Sodium Salt	CTP solution Sodium Salt	GTP solution Sodium Salt	UTP solution Sodium Salt
<b>Nomenclature</b>	Adenosine 5'-triphosphate	Cytidine 5'-triphosphate	Guanosine 5'-triphosphate	Uridine 5'-triphosphate
<b>CAS Number</b>	987-65-5	36051-68-0	36051-31-7	19817-92-6
<b>Formula (free acid)</b>	$C_{10}H_{16}N_5O_{13}P_3$	$C_9H_{16}N_5O_{14}P_3$	$C_{10}H_{16}N_5O_{14}P_3$	$C_9H_{14}N_2O_{15}P_3$
<b>Formula Weight (free acid, g x mol<sup>-1</sup>)</b>	507.18	483.16	523.18	484.14
<b>Storage</b>	at -20 °C	at -20 °C	at -20 °C	at -20 °C
<b>Stability</b>	24 months	24 months	24 months	24 months
<b>Appearance</b>	clear colorless solution	clear colorless solution	clear colorless solution	clear colorless solution
<b>Concentration (22 °C, pH 7.0)</b>	100 mM ± 2% ( $A_{259 \text{ nm}}$ , $\epsilon = 15.1 \text{ l x mmol}^{-1} \text{ x cm}^{-1}$ )	100 mM ± 2% ( $A_{271 \text{ nm}}$ , $\epsilon = 8.9 \text{ l x mmol}^{-1} \text{ x cm}^{-1}$ )	100 mM ± 2% ( $A_{252 \text{ nm}}$ , $\epsilon = 14.2 \text{ l x mmol}^{-1} \text{ x cm}^{-1}$ )	100 mM ± 2% ( $A_{262 \text{ nm}}$ , $\epsilon = 9.8 \text{ l x mmol}^{-1} \text{ x cm}^{-1}$ )
<b><math>A_{250 \text{ nm}} / A_{260 \text{ nm}}</math> (22 °C, pH 7.0)</b>	0.78 ± 0.03	0.82 ± 0.03	1.15 ± 0.04	0.74 ± 0.03
<b><math>A_{280 \text{ nm}} / A_{260 \text{ nm}}</math> (22 °C, pH 7.0)</b>	0.15 ± 0.02	0.97 ± 0.03	0.67 ± 0.03	0.38 ± 0.02
<b>pH (22 °C)</b>	8.0 ± 0.2	8.0 ± 0.2	8.0 ± 0.2	8.0 ± 0.2
<b>NTP (HPLC area)</b>	≥ 99.0%	≥ 99.0%	≥ 99.0%	≥ 99.0%
<b>NDP (HPLC area)</b>	≤ 1.0%	≤ 1.0%	≤ 1.0%	≤ 1.0%
<b>in vitro Transcription (T7 RNA polymerase, 1423 bp template)</b>	visible RNA fragment after 5 min incubation	visible RNA fragment after 5 min incubation	visible RNA fragment after 5 min incubation	visible RNA fragment after 5 min incubation
<b>DNases, RNases, Nicking Activity</b>	not detectable	not detectable	not detectable	not detectable
<b>Proteases</b>	not detectable	not detectable	not detectable	not detectable