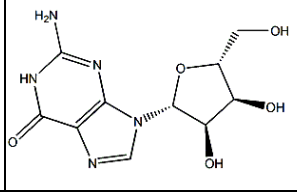
Sodium pyrophosphate Quality Specification

Item	Guanosine	CAS#	118-00-3
Chemical name	9-beta-d-furanoribose guanine	Chemical structure	
MF	$C_{10}H_{13}N_5O_5$		
MW	283.24		
Appearance	White crystalline powder		
Physicochemical Property	Melting point: 240℃, flash point: 423.1℃, density: 2.25g/cm3, difficult to dissolve into cold water, easy to dissolve into warm water, at 18℃ in 1320 mL water dissolved 1 g, in boiling water bath, 33 mL water dissolved 1 g. Do not dissolve in organic solvents such as alcohol, ether, chloroform and benzene.		
Usage	As an important intermediate of food and pharmaceutical products, it can be used in the synthesis of food freshness enhancing agent 5'-guanylate disodium, flavored nucleotide disodium, and nucleoside antiviral drugs such as ribavirin and Acyclovir. It is also the main raw material for the manufacture of acyclovir, riboside triazolium (ATC), guanylate sodium triphosphate (GTP) and other drugs.		

Specification	Item		Specification
	Appearance	——	White crystalline powder
	Assay(dry sample)	≥ , %	97.0-102.0
	Chromatographic purity	Guanosine≥,%	98.5
		Purine≥, %	0.5
	Transmittance of acid process	≥, %	95.0
	Transmittance of alkali process	≥, %	95.0
	Loss on drying	≤, %	1.0
	Residue on ignition	≤, %	0.2
	Heavy metal（Pb）	≤,（mg/kg）	10
	As	≤ mg/kg	2

	Enterprise In-house Specification