Cytosine

Catalog Number: 101469, 150774 **Cytosine** 

Structure (free base):

## ?

Molecular Formula:	Free Base C <sub>4</sub> H <sub>5</sub> N <sub>3</sub> O	<i>Hydrochloride</i> C₄H₅N₃O·HCl
Molecular Weight:	111.1	147.6
CAS #	71-30-7	Not Available

Synonym: 4-Amino-2-hydroxypyrimidine

Physical Description: White to off-white powder

## Solubility:

*Free Base:* Soluble in water (1 g/130 ml) or 0.1 N HCl (50 mg/ml - clear to very slightly hazy, colorless to faint yellow solution); slightly soluble in ethanol; insoluble in ether.<sup>1</sup> Gives a red color when dissolved in solutions of sodium hypochlorite to which a drop of ammonium hydroxide is added.<sup>1</sup> Forms salts with acids.<sup>1</sup>

Hydrochloride: Soluble in water or 1 N HCl (60 mg/ml - clear, colorless solution).

**Description:** A constituent of nucleic acids.

## Availability:

Catalog Number	Description	Size	
101469	Cytosine	1 g 5 g 10 g	
150774	Cytosine Hydrochloride	1 g 5 g 25 g	

## **Reference:**

1. Merck Index, 12th Ed., No. 2864