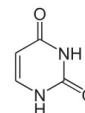




TECHNICAL DATA SHEET

Product name: Uracil



Specifications

Parameters	Specifications	Typical results
Appearance	White to off white Crystalline powder	white Crystalline powder
Identification By HPLC	The Retention Time of The Principal Peak Obtained with The Substance to Be Examined Corresponds to That of Reference Standard	Complies
Melting Range	300o C Min	Conforms
Loss on Drying	0.5% max	0.04%
Purity (HPLC)	99.0% min	99.81%
Assay	≥99.0%	99.64%
Heavy metal (pb)	≤10ppm	Conforms

Stability and storage:

It is a relatively stable compound under appropriate storage conditions, generally in well-closed containers at room temperature.

Store at room temperature (around 20°C) in a cool, dry place.

Its stability can be influenced by factors like temperature, humidity, and the presence of certain other substances.

Application Areas:

Applications:

Uracil is involved in the synthesis of enzymes by bonding with riboses and phosphates, which are necessary for cell function.

Uracil derivatives, like UDP-glucose, play a role in regulating the conversion of glucose to galactose during carbohydrate metabolism in the liver and other tissues.

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General information

CAS No. : 66-22-8
 IUPAC Name : Pyrimidine-2,4(1H,3H)-dione
 Synonyms : 2,4-Pyrimidinediol
 EC No : 200-621-9

Physical/Chemical properties:

Molecular Formula : C₄H₄N₂O₂
 Molecular weight : 112.09
 Melting point : 335 °C
 Boiling Point : Decomposes
 Solubility in water : Soluble
 Physical state at 20°C : Solid

Hazard classification & labelling:

Single Word : Danger

Pictogram :



Classification according to Regulation (EC) No 1272/2008: : H315, H319, H335, H361

Precautionary statement(s) : P201, P202, P261, P321, P264, P271, P280, P281, P302+P352, P308+P313, P304+P340, P305+P351+P338, P312, P332+P313, P362, P337+P313, P403+P233,