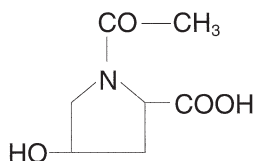


N-ACETYL-L-HYDROXYPROLINE

CAS NO. 33996-33-7

MOLECULAR STRUCTURE AND FORMULA



$C_7H_{11}NO_4$: 173.17
N : 8.08%

DESCRIPTION

White crystals or crystalline powder
Odorless

IDENTIFICATION

Compare the infrared absorption spectrum of sample with that of the standard by potassium bromide disk method.

SPECIFICATION AND PROCEDURE

State of solution (Transmittance)	Not Less Than 95.0%	Sec.-1 10%, H ₂ O
Specific rotation $[\alpha]_D^{20}$	-115 ~ -127°	Sec.-2, dry 4%, H ₂ O
Ammonium (NH ₄)	Not More Than 0.020%	Sec.-3-(1), 0.25 g 5.0 ml of Standard solution
Chloride (Cl)	Not More Than 0.05%	Sec.-4, 0.21 g 0.30 ml of 0.01N HCl
Sulfate (SO ₄)	Not More Than 0.028%	Sec.-5, 0.6 g 0.35 ml of 0.01N H ₂ SO ₄
Iron (Fe)	Not More Than 10 ppm	Sec.-6-(1), 2.0 g 2.0 ml of Standard solution
Heavy metals (as Pb)	Not More Than 10 ppm	Sec.-7-(1), 2.0 g 2.0 ml of Standard solution
Arsenic (As ₂ O ₃)	Not More Than 1 ppm	Sec.-8-(1), 2.0 g 2.0 ml of Standard solution
Loss on drying	Not More Than 1.0%	Sec.-9-(1) 105°C, 3hr
Residue on ignition	Not More Than 0.10%	Sec.-10, 2 g
Foreign amino acids	Not Detected (TLC, 10 µg)	Sec.-13, Solvent L Nin A
Assay (dry basis)	99.0 ~ 101.0%	Sec.-16-(1), dry → 0.2 g 0.1N NaOH 1 ml = 17.317 mg C ₇ H ₁₁ NO ₄

STORAGE

Controlled room temperature in tight container