

USP24
3/23/00

PRODUCT DATA SHEET

N-Acetyl-L-Cysteine

CAS No. [616-91-1]
C5H9NO3S
M.W.: 163.20

Description: White, crystalline powder, having a slight acetic odor. Freely soluble in water and in alcohol; practically insoluble in chloroform and in ether.

Identification: Infrared absorption spectrum (Concordance with USP reference standard spectrum)

SPECIFICATION:

Specific rotation $[\alpha]_D^{25}$:	+21° to +27°
pH (1%)	:	2.0 to 2.8
Loss in drying (70°, 4 hours)	:	Not more than 1.0%
Residue on ignition (as sulfate)	:	Not more than 0.5%
Heavy metals (as Pb)	:	Not more than 0.001%
Assay (HPLC)	:	Not less than 98.0 % and Not more than 102.0%
Organic volatile impurities	:	Meets USP Requirements
Packaging and storage	:	Preserve tight containers