

PRODUCT DATA SHEET

D-Serine

CAS No. [312-84-5]

$C_3H_7NO_3$

M.W.: 105.09

Description

D-Serine occurs as white crystals or crystalline powder. It is practically odorless.

Identification

Infrared absorption spectrum (KBr, concordance with STD)

Specification

Specific rotation	$[\alpha]_{20}$:	-13.5 ~ -16.0°
(c=10, 2N-HCl)			
State of solution	(10w/v%, H ₂ O)	:	Colorless and clear
Chloride (Cl)		:	Not more than 0.021%
Sulfate (SO ₄)		:	Not more than 0.028%
Ammonium (NH ₄)		:	Not more than 0.02%
Heavy metals (as Pb)		:	Not more than 10 ppm
Iron (Fe)		:	Not more than 10 ppm
Arsenic (As ₂ O ₃)		:	Not more than 1 ppm
Other amino acids (TLC, 10μ g)		:	Not detected
Loss on drying (105°, 3 hours)		:	Not more than 0.30%
Residue on ignition (as sulfate)		:	Not more than 0.10
Assay (Perchloric acid titration)		:	Not less than 98.5%