



L-Threonine

Feed Grade

Commodity	Chemical Composition	L-Threonine 98.5% (Feed Grade)
	CAS Registry Number	72-19-5

Product Description	White or pale brownish powder
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Chemical Description	Molecular Formula	$C_4H_9NO_3$
	Molecular Weight	119.12
	Structure Formula	$\begin{array}{ccccccc} CH_3 & - & CH & - & CH & - & COOH \\ & & & & & & \\ & & OH & & NH_2 & & \end{array}$

Specifications	Purity(Dry Basis)	not less than 98.5%
	pH(10% Solution)	5.0 ~ 6.5
	Specific Rotation	$[\alpha]_D^{20} - 26.5^\circ \sim -29.0^\circ$
	Solubility	110g/l (30°)
	Bulk Density	0.700 ~ 0.900 g/ml
	Shelf Life	2 years
	Moisture	not more than 1.5%
	Residue on Ignition	not more than 0.4%
	Heavy Metals Arsenic	not more than 15ppm not more than 1.5ppm

Nutritional Value	L-Threonine Content	not less than 98.5%
	Swine Metabolizable Energy	3820 Kcal/Kg
	Poultry Metabolizable Energy	3480 Kcal/Kg

Packaging Options	Paper bag	25Kg 3-ply Kraft paper bag with 1-ply inner P.E tube
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