L-Threonine [Feed Grade (98.5%)]

L-Threonine is an indispensable amino acid as well as the third limiting amino acid in most poultry and swine diets [beyond Lysine and Methionine]. The commercial introduction and use of crystalline feed grade L-Threonine has provided nutritionists with a tool that allows them to economically balance dietary protein and meet the amino acid requirements of today’s high-yielding livestock.

Since the commercialization of crystalline L-Threonine, Ajinomoto Heartland LLC has improved the quality of L-Threonine through granulation. Granulated L-Threonine offers superior flowability, less dust, and a particle size distribution that results in better mixability – three key value-added properties that are desired when supplementing an essential nutrient at the feed mill.

**L-THREONINE GRANULAR**

Appearance................................. White to off-white granule  
Molecular Weight....................... 119.12  
Molecular Formula...................... C₄H₉NO₃

**STRUCTURE OF L-THREONINE**

\[
\begin{align*}
\text{CH}_3 & \quad \text{CH} \quad \text{CH} \quad \text{COO}^- \\
\text{OH} & \quad \text{NH}_3^+ \\
\end{align*}
\]

OR

\[
\begin{align*}
\text{CH}_3 & \quad \text{CH} \quad \text{CH} \quad \text{CH} \quad \text{NH}_3^+ \\
\text{OH} & \quad \text{O} \\
\end{align*}
\]

For animal feed only – not for human consumption