



# Rhodimet® AT88

QUALITY STANDARD

REF: 301 V12 (25/09/2020)\_EN

## DESCRIPTION

Rhodimet® AT 88 is a liquid methionine source, added to animal feeds. Rhodimet® AT88 is particularly intended for feed millers and integrators favouring the direct incorporation of methionine in feeds.

## COMPOSITION

Methionine hydroxy analogue (2-hydroxy-4-methylthiobutanoic acid) CAS N° [583-91-5]	Chemical synthesis	88 %
Water content		Max. 12 %
<b>Total</b>		<b>100%</b>

## SPECIFICATIONS

Appearance	liquid
Color	light brown
Hydroxy analogue of methionine content	min. 88%
Water content	max. 12%
Chemical formula	CH <sub>3</sub> - S - CH <sub>2</sub> - CH <sub>2</sub> - CH (OH) - COOH

## DURATION OF GUARANTEE AND STORAGE CONDITIONS

5 years from date of the manufacture, keep in original unopened packaging stored well closed in a cool dry place.

## PHYSICAL AND CHEMICAL PROPERTIES

*This data which results from careful tests on representative samples, is provided for information purposes only and does not in any way constitute a guarantee.*

pH (diluted in water at 10g/liter)	2.4 +/- 0.10
pKA	3.4 +/- 0.10
Density at 20°C	1.23 g/cm <sup>3</sup>
Viscosity at 25°C	85 - 95 cst
Crystallization temperature	-40 °C
Heavy metals	< 15 ppm (expressed as Pb)

## PACKAGING

250 kgs drums (1000 kgs pallet); 1200 kgs IBC (1200 kgs pallet).  
Bulk (tank truck or ISO tank container or parcel tanker).



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## USE

### LABELING RECOMMENDATIONS:

For use in compound feeds or water for drinking. If the additive is administered via water for drinking protein excess should be avoided.

## METHODS OF ANALYSIS

Reference : internal method – R215. Oxidation of the sulfur by bromine in acid medium and titration by potentiometry.

## SAFETY INFORMATION

Product MSDS (Material Safety Data Sheet) available on [www.quickfds.com](http://www.quickfds.com).

Rhodimet AT 88 is an acidic and viscous liquid that should be handled in accordance with the general industrial health and safety rules for this type of product. For user safety: safety glasses and gloves should be worn during handling.

## MATRIX SPECIFICATIONS \*

<b>Crude protein equivalent</b>	51.7 %
<b>Digestible methionine equivalent</b>	88 %
<b>Digestible methionine + cysteine equivalent</b>	88 %
<b>Metabolizable energy for poultry**</b>	5384 kcal/kg; 22.5 MJ/kg
<b>Metabolizable energy for pigs**</b>	5154 kcal/kg; 21.6 MJ/kg
<b>Net energy for poultry**</b>	3607 kcal/kg; 15.1 MJ/kg
<b>Net energy for pigs**</b>	3453 kcal/kg; 14.5 MJ/kg
<b>ABC-4 (Acid Binding Capacity)</b>	-5510 meq H+/kg

With acidic pH, Rhodimet® AT 88 shows also the properties of an organic acid in feeds.

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\*\*Source: Van Milgen et al., 2020

## REGULATION

EU : Amino acids, their salts and analogues. 3c307. Hydroxy analogue of methionine. Hydroxy analogue of methionine active substance: min.88%.



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3c307 - Regulation N° 469/2013 of 22 May 2013.

All animal species.

Hydroxy analogue of methionine is approved for all animal species in compound feeds or water for drinking.

This product is compliant with Directive 2002/32/EC of the European Parliament and of the Council on undesirable substances in animal feed.

\* in the United States FDA Reg.n° CFR 582.5477.

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