



# Rhodimet® AT 88

Quality standard

REF: 301- 800 PF 200. V5 (31/10/2013)

## 1. Description

Rhodimet AT 88 is DL-2-hydroxy-4-(methylthio)-butanoic acid (HMTBA), an analogue of DL-methionine. It is added to animal feeds. Rhodimet AT 88 is a concentrated liquid source of methionine, particularly intended for high-capacity factories favouring the direct incorporation of methionine into feeds.

## 2. Composition

DL-2-hydroxy-4-(methylthio)-butanoic acid or hydroxy analogue of methionine.  
CAS N° [583-91-5]

## 3. Specifications

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

## 4. Duration of guarantee

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

## 5. 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	1.0
Density at 20°C	1.23 g/cm <sup>3</sup>
Viscosity at 25°C	105 cst
Crystallisation temperature	- 40°C
Heavy metals	< 15 ppm (expressed as Pb)

## 6. Packaging

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

## 7. Use

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

\* in the EEC under n 3c307 \_REGULATION (EU) No 469/2013 of 22 May 2013.

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

## 8. Method of analysis

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

## 9. Safety

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

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

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.

## 10. Matrix specifications \*

<b>Crude protein equivalent</b>	51.7%
<b>Digestible methionine equivalent</b>	88.0%
<b>Digestible methionine + cystine equivalent</b>	88.0%
<b>Metabolizable energy for poultry**</b>	3 990 kcal/kg ; 16.7 MJ/kg
<b>Metabolizable energy for pigs**</b>	4 730 kcal/kg; 19.8 MJ/kg
<b>Net energy for pigs**</b>	3 660 kcal/kg; 15.3 MJ/kg

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

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\*\*Source: INRA Tables, 2004

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