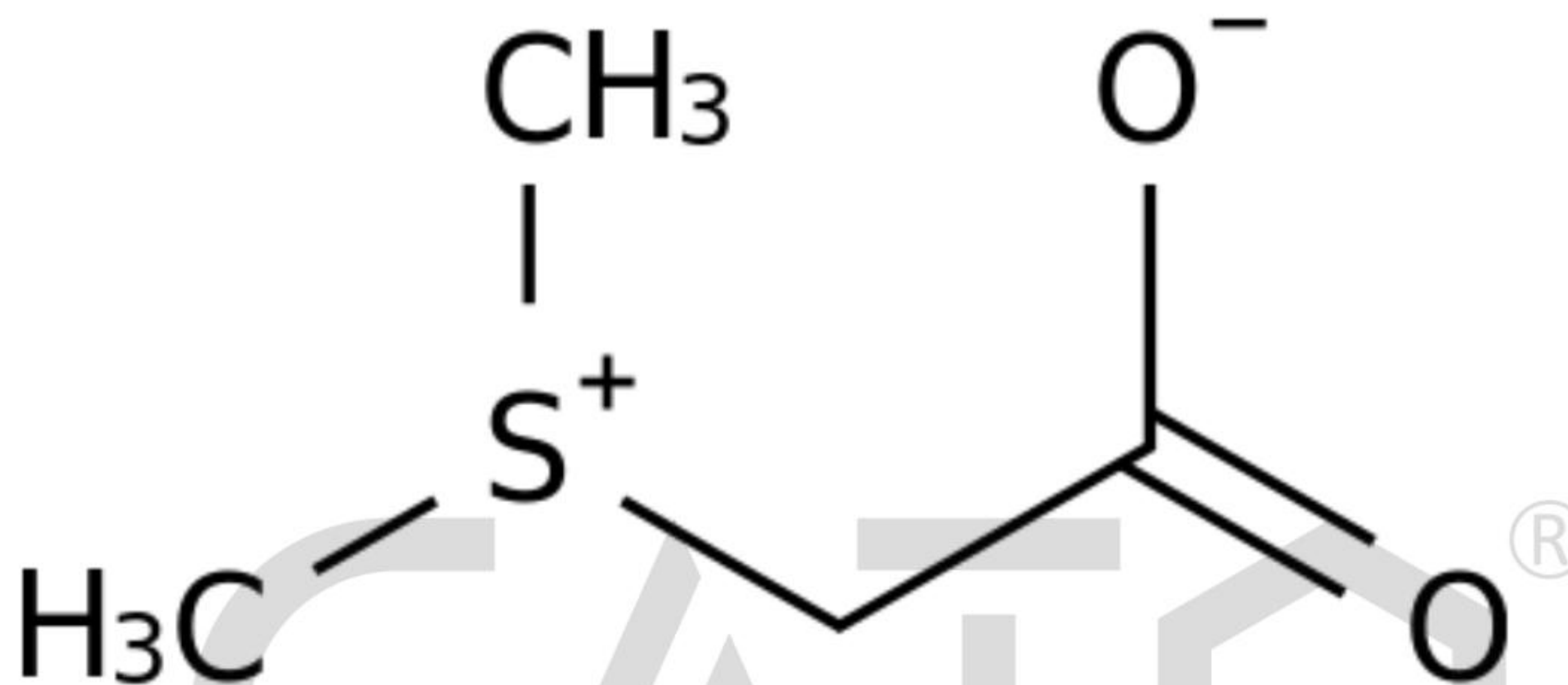


Certificate of Analysis

Reference Material

Product Name:	Sulfobetaine	Catalogue Number:	CCEM501776
Chemical Name:	N/A	Lot Number:	0425-RD-0019
CAS Number:	4727-41-7	Expiry Date:	Apr 26, 2025
Molecular Formula:	C ₄ H ₈ O ₂ S	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	120.17		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	2.0566%
Assay		97.9%
Uncertainty		±2.0%

Comment:

1. The calculation of the 100% method follows the formula:

Assay (%) = (100% - Water Content) * Purity ELSD (%) / 100%

Water Content is considered as absolute effect, ELSD purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Delia

Reviewed by:

Xenia

Aproved by General manager:

David

Date: Apr 27, 2022

Date: Apr 28, 2022

Date: Apr 28, 2022

