



## Specification

### Benfotiamine

**CAS Number:** 22457-89-2  
**Molecular Formula:** C<sub>19</sub>H<sub>23</sub>N<sub>4</sub>O<sub>6</sub>PS  
**Molecular Weight:** 466.45  
**Storage:** 2°C - 8°C  
**Retest Period:** Three years after date of manufacture.

Test	Specification
Appearance	White crystalline powder
Solubility	Sparingly soluble in water; slightly soluble in alcohol and in chloroform
Identification	Positive
Particle Size	100% Through 20 mesh
Assay	98.0% ~ 102.0%
Loss on Drying	≤ 1.5%
Melting Point	~ 200°C
Sulfate	≤ 0.011%
Thiamine	≤ 0.1%
Benzyl Acid	Not detected
Chloride	≤ 0.053%
Residual Solvent	
Ethanol	≤ 0.5%
Methanol	≤ 0.3%
Heavy Metals	≤ 20ppm
Arsenic	≤ 3ppm
Cadmium	≤ 1ppm
Mercury	≤ 0.1ppm
Lead	≤ 1ppm
Total Aerobic Plate Count	≤ 1000 cfu/g
Total Yeast and Mold	≤ 100 cfu/g
Coliforms	≤ 3 cfu/g
Escherichia coli, absent in 1g	Negative
Salmonella spp., absent in 25g	Negative
Staph. Aureus	Negative

Approved:

John Grubb, PhD

Date: May 12, 2020



**Gojira Fine Chemicals, LLC**  
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