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## Product Data Sheet

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Product Name: Methyl anthranilate

Cat. No.: GC62542

### Chemical Properties

Cas. No. 134-20-3

Formula  $C_8H_9NO_2$  M.Wt 151.16

Solubility Storage 4°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

### Background

Methyl anthranilate, a plant spice extract, is a quorum sensing inhibitor and anti-biofilm agent against *Aeromonas sobria*. Methyl anthranilate has been widely employed for the preparation of edible flavor and food additives in food processing industries[1].

0.5 μL/mL of Methyl anthranilate evidently reduces biofilm formation (51.44%), swinging motility (74.86%), swarming motility (71.63%), protease activity (43.08%), and acyl-homoserine lactone (AHL) production. Methyl anthranilate might inhibit quorum sensing (QS) system in *A. sobria* by interfering with the biosynthesis of AHL, as well as competitively binding with receptor protein[1].

[1]. Tingting Li, et al. Methyl anthranilate: A novel quorum sensing inhibitor and anti-biofilm agent against *Aeromonas sobria*. *Food Microbiol.* 2020 Apr;86:103356.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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