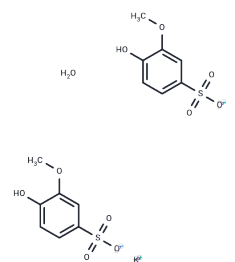


## Potassium guaiacolsulfonate hemihydrate

### Chemical Properties

CAS No. : 78247-49-1  
 Formula: C<sub>14</sub>H<sub>16</sub>K<sub>2</sub>O<sub>11</sub>S<sub>2</sub>  
 Molecular Weight: 502.6  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



### Biological Description

Description	Potassium guaiacolsulfonate hemihydrate (Potassium guaiacolsulfonate) is an aromatic sulfonic acid used in medicine as an expectorant.
Targets(IC50)	Antibacterial, Antibiotic

### Solubility Information

Solubility	DMSO: 50 mg/mL (99.48 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9897 mL	9.9483 mL	19.8965 mL
5 mM	0.3979 mL	1.9897 mL	3.9793 mL
10 mM	0.199 mL	0.9948 mL	1.9897 mL
50 mM	0.0398 mL	0.199 mL	0.3979 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Le, T., Phung, T., & Le, D. (2019). Development and Validation of an HPLC Method for Simultaneous Assay of Potassium Guaiacolsulfonate and Sodium Benzoate in Pediatric Oral Powder. *Journal Of Analytical Methods In Chemistry*, 2019, 1-9. doi: 10.1155/2019/6143061

Das Gupta, V. (1979). Applications of Paired Ion High-Pressure Liquid Chromatography: Quantitative Determination of Potassium Guaiacolsulfonate and Other Ingredients in Cough Syrups. *Journal Of Pharmaceutical Sciences*, 68(1), 118-120. doi: 10.12002/jps.262006820142

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