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**Product Data Sheet**

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Product Name: Guaifensin

Cat. No.: GC10072

**Chemical Properties**

Cas. No. 93-14-1

Chemical Name 3-(2-methoxyphenoxy)propane-1,2-diol

SMILES COC1=CC=CC=C1OCC(CO)OFormula  $C_{10}H_{14}O_4$ 

M.Wt 198.22

Solubility  $\geq 8.05\text{mg/mL}$  in DMSOStorage Store at  $-20^{\circ}\text{C}$ 

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}\text{C}$  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**

Guaifenesin is an expectorant that also has some muscle relaxing action. Target: Others. Guaifenesin is thought to act as an expectorant by increasing the volume and reducing the viscosity of secretions in the trachea and bronchi. It also stimulates the flow of respiratory tract secretions, allowing ciliary movement to carry the loosened secretions upward toward the pharynx. Thus, it may increase the efficiency of the cough reflex and facilitate removal of the secretions; however, objective evidence for this is limited and conflicting [1].

**References:**

[1]. Bennett, S., N. Hoffman, and M. Monga, Ephedrine- and guaifenesin-induced nephrolithiasis. *J Altern Complement Med*, 2004. 10(6): p. 967-9.

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

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