

# Guaifenesin

## General Properties

**Physical form and appearance** White to slightly gray, crystalline powder. May have a slight characteristic odor.

**Physical state** solid

**Form** powder

**Molecular weight** 198.22

**Molecular formula**  $C_{10}H_{14}O_4$

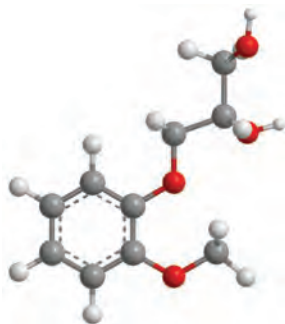
**Identification** Infrared Absorption

**Assay(HPLC)** 98.0-102.0% w/w

**Solubility** Soluble in water, in alcohol, in chloroform, and in propylene glycol; sparingly soluble in glycerin. Preserve in tight containers.

**Storage** Preserve in tight containers.

**Technical specification** Purity(HPLC): >98.0 %  
Related substance(HPLC) individual impurity <0.5 %  
Total impurities <1.0 %  
Method : USP



**International non proprietary name (INN)**

Guaifenesin

**Chemical abstract index name**

1,2-Propanediol, 3-(2-methoxyphenoxy)-, (±);(±)-3-(o-Methoxyphenoxy)-1,2-propanediol

**Cas registry No.**

93-14-1

**indication**

Expectorant.

**structure**

