



3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

GUAIACOL GLYCERYL ETHER

Guaifenesin SIGMA REFERENCE STANDARD

Product No. **G 4774**

Lot No: 115H5958

Storage Temperature: room temperature

Formula: $C_{10}H_{14}O_4$

Formula Weight: 198.22

CAS No: 93-14-1

Synonyms: 1,2-Propanediol,
3-(2-methoxyphenoxy)-, (±)-.

(±)-3-(*o*-Methoxyphenoxy)-
1,2-propanediol.

Product Description

This product meets USP specifications (Current through USP 23, 3rd Supplement), and is traceable to USP Reference Standard lot H

Store in sealed vial at room temperature. Dry a portion at 60°C under vacuum (but at a pressure not below 10 mm mercury), to constant weight before using. Use promptly. Discard unused material.

TEST	USP 23 SPECIFICATIONS	Result Sigma R.S. Lot 115H5958
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP RS lot H
Ultraviolet absorption spectrum 40 µg per mL in chloroform (197 U)	compares to standard	conforms to USP RS lot H
Identification C	to pass	passes
Melting range, °C (741)	between 78° and 82° and range not to exceed 3°	80 -81°
Loss on drying (731)	not more than 0.5%	passes
pH (791)	between 5.0 and 7.0 in a 1 in 100 solution	6.8
Heavy metals, <i>Method I</i> (231)	not more than 0.0025%	passes
Free Guaiacol	not more than 0.03%	passes
Related compounds HPLC (621)	not more than 0.5% of any individual related compound and not more than 1% total of related compounds	passes
Organic Volatile Impurities <i>Method IV</i> (467)	meets requirements	meets requirements
Assay	not less than 98.0% and not more than 102.0% calculated on the dried basis	99.1%

See reverse side for IR and UV spectrum of Sigma Reference Standard.

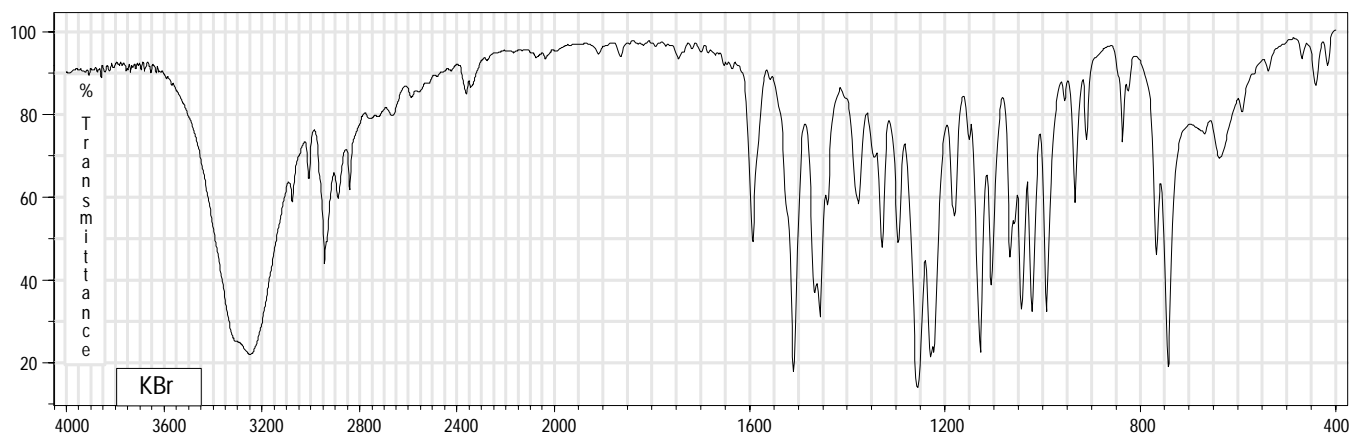
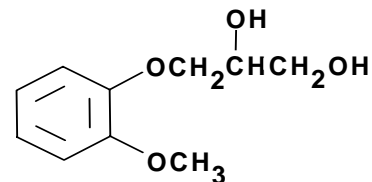
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Guaifenesin

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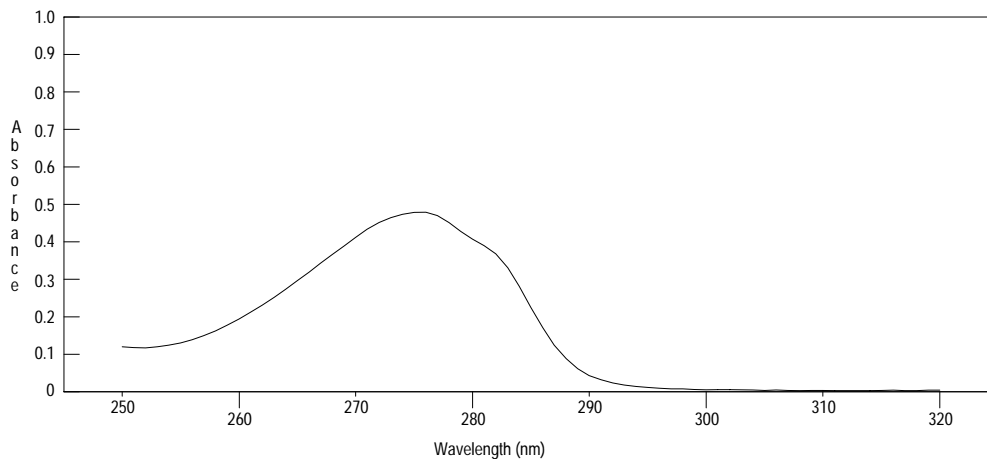
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Lot 115H5958



INFRARED SPECTRUM

KBr dispersion
Wavenumbers (cm⁻¹)



ULTRAVIOLET SPECTRUM

40.2 µg/mL in chloroform

6/2000

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Purchaser must determine the suitability of the product(s) for their particular use. Additional terms and conditions may apply.
Please see reverse side of the invoice or packing slip.