



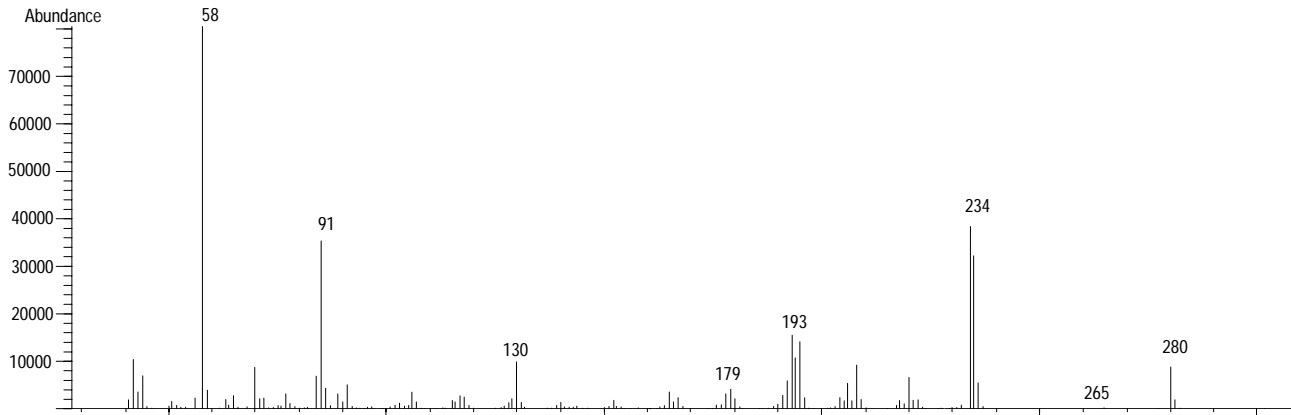
3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone 800-325-5832 • (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sial.com  
sigma-aldrich.com

## Product Information

### IMIPRAMINE HYDROCHLORIDE

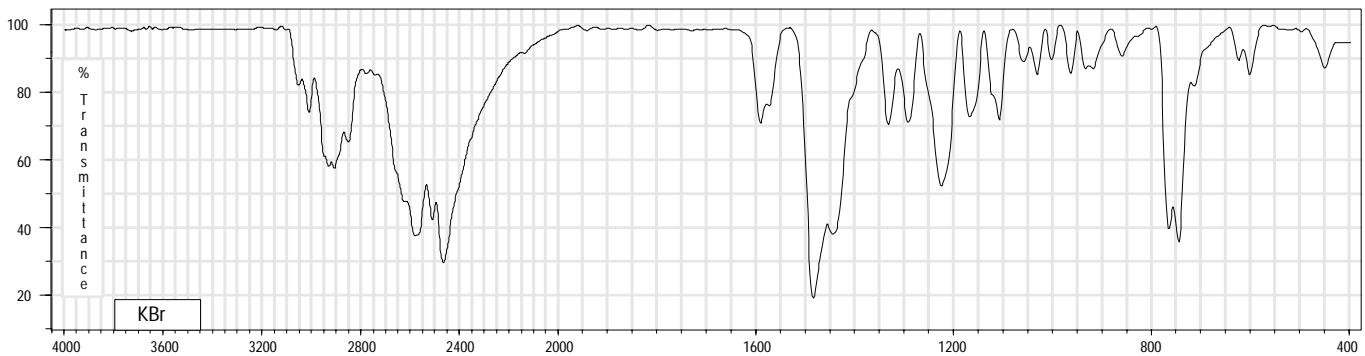
Methanol Solution

<b>Product Number</b>	I 2638	<b>Synonyms</b>	3-(10,11-Dihydro-5H-dibenzo[b,f]azepin-5-yl)-N,N-dimethyl-propylamine Hydrochloride, Imizine
<b>Lot Number</b>	123K8805	<b>Stability</b>	If stored at 2-8 °C in an air tight container, protected from light, decomposition of the product is less than 1% in 48 months. After opening, concentration may change due to loss of solvent.
<b>CAS Number</b>	[113-52-0]	<b>Expiration Date</b>	October 2008
<b>Concentration</b>	1.13 mg Imipramine Hydrochloride (equivalent to 1.00 mg free base)/mL GC grade methanol (concentration verified by UV)	<b>Storage</b>	2-8 °C
<b>Molecular Formula</b>	$C_{19}H_{24}N_2 \cdot HCl$	<b>70 eV Electron Ionization Mass Spectrum</b>	
<b>Molecular Weight</b>	316.9		



**DEA Class** Formulation of a non controlled substance  
Hewlett-Packard 5890 Series II Gas Chromatograph  
Hewlett-Packard 5971 Mass Selective Detector  
Hewlett-Packard G1034C MS ChemStation (HP-DOS series)

### FT-IR



Wavenumbers (cm<sup>-1</sup>)

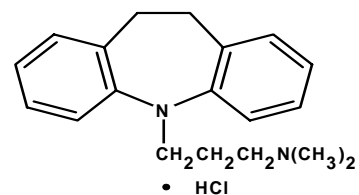
Mattson Galaxy 3020 FT-IR

# IMIPRAMINE HYDROCHLORIDE

Methanol Solution

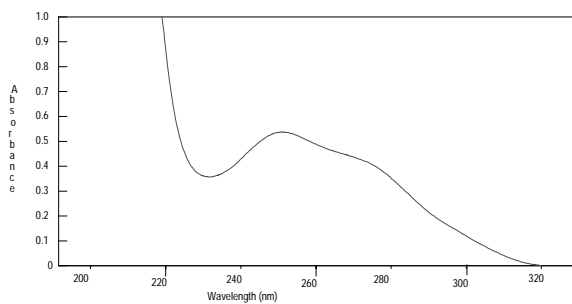
Product Number I 2638

Lot Number 123K8805



## Ultraviolet Spectrum

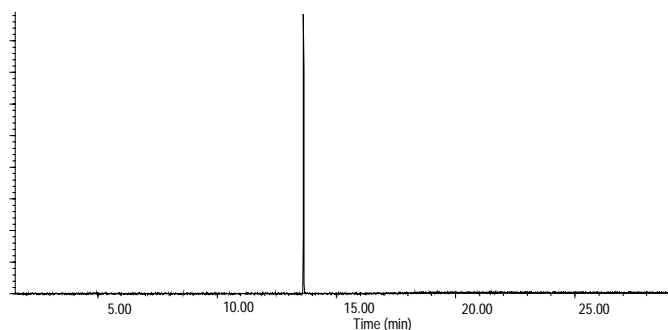
<b>Peak</b>	250.0 nm
<b>Absorbance</b>	0.538
<b>Solvent</b>	0.2 N H <sub>2</sub> SO <sub>4</sub>
<b>Dilution</b>	1 : 49 (v/v)



Bio-Tek Uvikon XL

## Capillary Gas Chromatography

**Column** Supelco SPB-1 (Cat. No. 2-4162)  
**I.D.** 0.20 mm **Length** 15 m **Film Thickness** 0.20 μm  
**Oven Temperature** 50 °C (2 min.), then 15°/min. to 300 °C, hold 11 min.  
**Injector Temperature** 250 °C, Split  
**Detector** Hewlett-Packard 5971  
Mass Selective Detector (70 eV, 40-500 m/z)



Hewlett-Packard 5890

I 2638/123K8805/02/12/04

This product is not for *in vitro* diagnostic procedures. For R&D use only. Not for drug, household or other uses.  
Sigma brand products are sold through Sigma-Aldrich, Inc.  
Sigma-Aldrich, Inc. warrants that its products conform to the information contained in this and other Sigma-Aldrich publications.  
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.