



**SIGMA-ALDRICH**

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## Product Information

### ACETAMINOPHEN SIGMA REFERENCE STANDARD

Product No. **A3035**

Lot No: 67H94221

Storage Temperature: room temperature

Formula: C<sub>8</sub>H<sub>9</sub>NO<sub>2</sub>

Formula Weight: 151.16

CAS No: 103-90-2

Synonyms: Acetamide, N-(4-hydroxyphenyl)-

4'-Hydroxyacetanilide.

#### Product Description

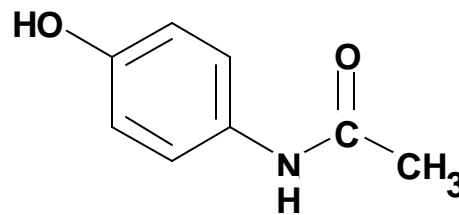
This product meets USP specifications (Current through USP 23, 6th Supplement), and is traceable to USP Reference Standard lot I

Store at room temperature. Protect from light. Dry a portion over silica gel for 18 hours before using. Use promptly. Discard unused material.

TEST	USP 23 SPECIFICATIONS	Result Sigma R.S. Lot 67H94221
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP RS lot I
Ultraviolet absorption spectrum 1 in 200,000 in acidic methanol (197U)	compares to standard	conforms to USP RS lot I
Thin-layer chromatographic identification (201)	compares to standard	passes
Melting range, °C (741)	between 168 and 172	170-171°
Water <i>Method I</i> (921)	not more than 0.5%	0.04%
Residue on ignition (281)	not more than 0.1%	passes
Chloride (221)	not more than 0.014%	passes
Sulfate (221)	not more than 0.02%	passes
Sulfide	no coloration or spotting of test paper	passes
Heavy metals, <i>Method II</i> (231)	not more than 0.001%	passes
Free p-aminophenol	not more than 0.005%	passes
p-Chloroacetanilide	not more than 0.001%	passes
Readily carbonizable substances (271)	no more color than <i>Matching Fluid A</i>	passes
Organic volatile impurities <i>Method V</i> (467)	not to exceed limits	meets the requirements
Assay	not less than 98.0% and not more than 101.0%, calculated on the anhydrous basis	99.1%

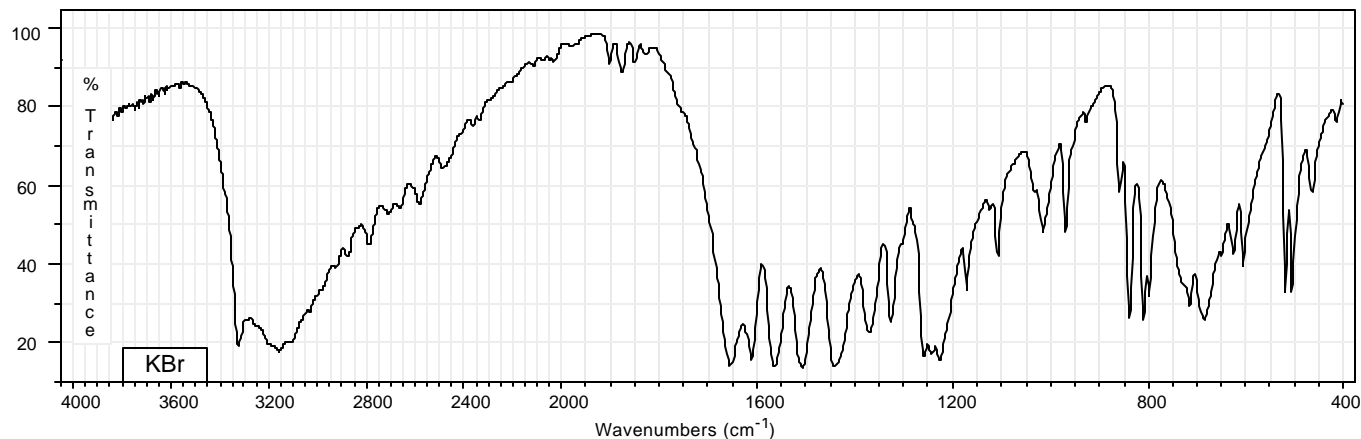
See reverse side for IR and UV spectra of Sigma Reference Standard.

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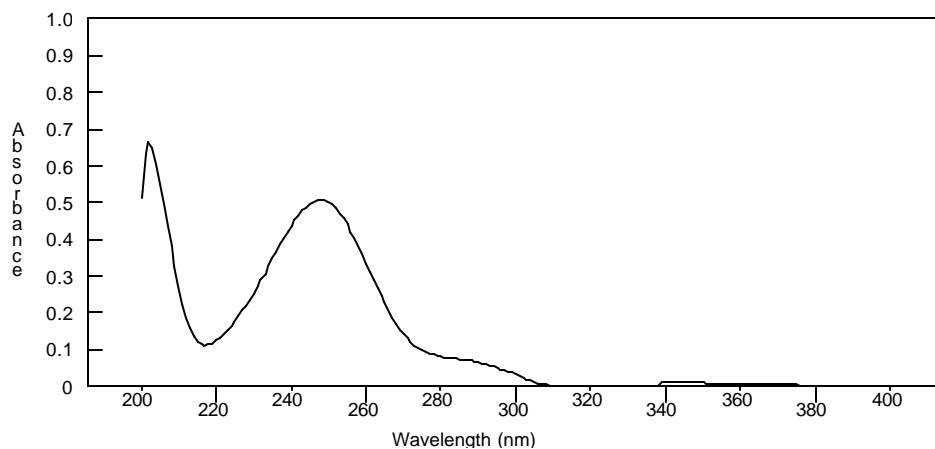
**INFRARED SPECTRUM**

KBr dispersion



**ULTRAVIOLET SPECTRUM**

5.46 µg/ml in acidic methanol



6/97

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.