

Product Information

ACETAMINOPHEN SIGMA REFERENCE STANDARD

Product No. **A3035**

Lot No: 45K8800

Storage Temperature: room temperature

Formula: C₈H₉NO₂

Formula Weight: 151.16

CAS No: 103-90-2

Synonyms: Acetamide, *N*-(4-hydroxyphenyl)-
 4'-Hydroxyacetanilide.

Product Description

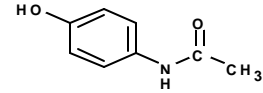
This product meets USP specifications (Current through USP 28, Supplement 1) and is traceable to USP Reference Standard lot J-1.

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

TEST	USP 28 SPECIFICATIONS	Result Sigma R.S. Lot 45K8800
Infrared absorption spectrum KBr dispersion (197K)	compares to standard	conforms to USP reference standard lot J-1
Ultraviolet absorption spectrum 5 µg/mL 0.1 N HCl in methanol (197U)	compares to standard	conforms to USP reference standard lot J-1
Identification C	meets requirement	Passes
Melting range (741)	between 168° and 172°	168.7-168.9°
Water, <i>Method I</i> (921)	not more than 0.5%	Passes
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 <i>p</i> -aminophenol	not more than 0.005%	Passes
Limit of <i>p</i> -chloroacetanilide	not more than 0.001%	Passes
Readily carbonizable substances (271)	the test solution has no more color than <i>Matching Fluid A</i>	Passes
Organic volatile impurities <i>Method V</i> (467)	meets requirement	Passes
Assay	not less than 98.0 percent and not more than 101.0 percent C ₈ H ₉ NO ₂ , calculated on the anhydrous basis	99.2%

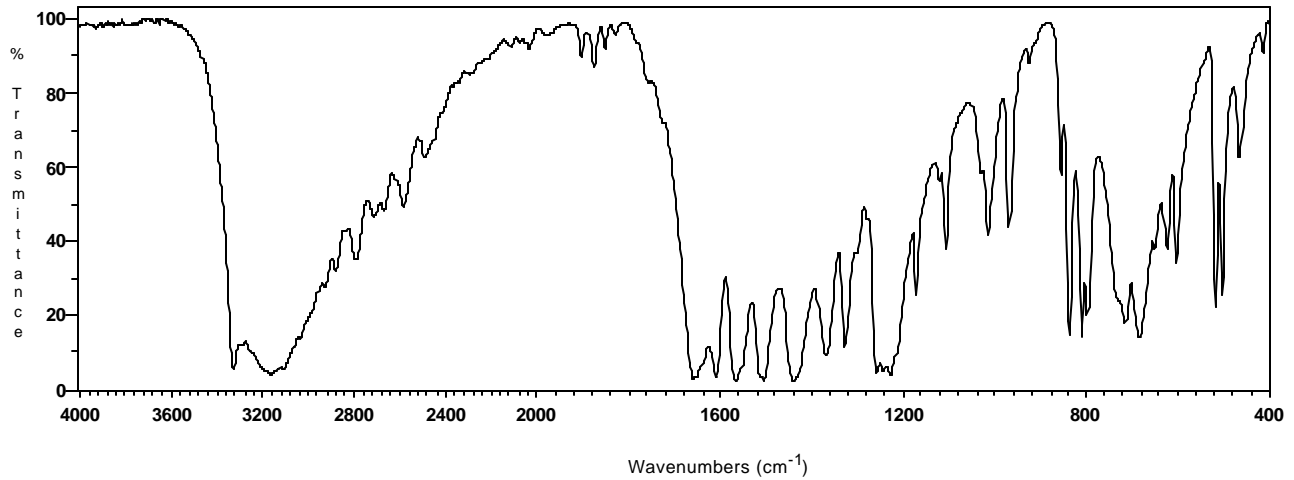
See reverse side for IR & UV spectra of Sigma Reference Standard.

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Product No. **A3035**
Lot 45K8800



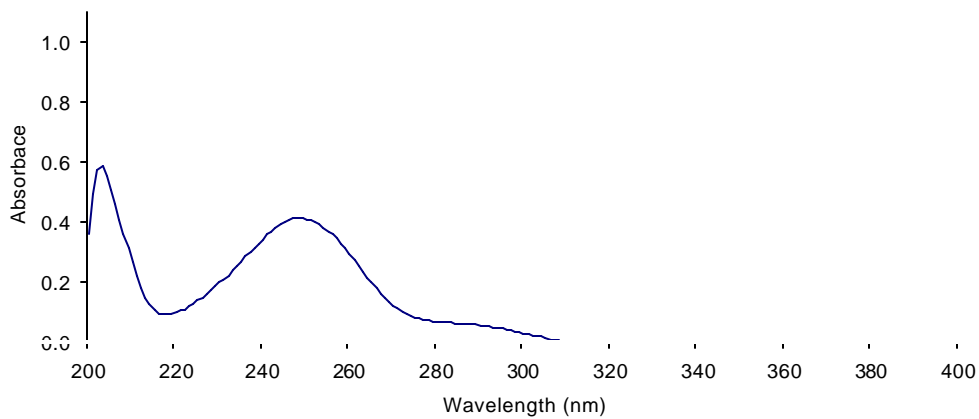
INFRARED SPECTRUM

KBr dispersion



ULTRAVIOLET SPECTRUM

4.73 µg/mL in 0.1 N HCl in methanol



4/05

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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.