



SIGMA-ALDRICH

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Product Information

ACETAMINOPHEN SIGMA REFERENCE STANDARD

Product No. **A3035**

Lot No: 24K8800

Storage Temperature: room temperature

Formula: $C_8H_9NO_2$

Formula Weight: 151.16

CAS No: 103-90-2

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

Product Description

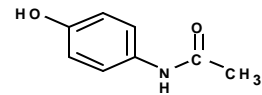
This product meets USP specifications (Current through USP 27, Supplement 1) and is traceable to USP Reference Standard lot J-1.

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 27 SPECIFICATIONS	Result Sigma R.S. Lot 24K8800
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	
Melting range <741>	between 168° and 172°	
Water, <i>Method I</i> <921>	not more than 0.5%	
Residue on ignition <281>	not more than 0.1%	
Chloride <221>	not more than 0.014%	
Sulfate <221>	not more than 0.02%	
Sulfide	no coloration or spotting of test paper	
Heavy metals, <i>Method II</i> <231>	not more than 0.001%	
Free <i>p</i> -aminophenol	not more than 0.005%	
Limit of <i>p</i> -chloroacetanilide	not more than 0.001%	
Readily carbonizable substances <271>	the test solution has no more color than <i>Matching Fluid A</i>	
Organic volatile impurities <i>Method V</i> <467>	meets requirement	
Assay	not less than 98.0 percent and not more than 101.0 percent $C_8H_9NO_2$, calculated on the anhydrous basis	100.4%

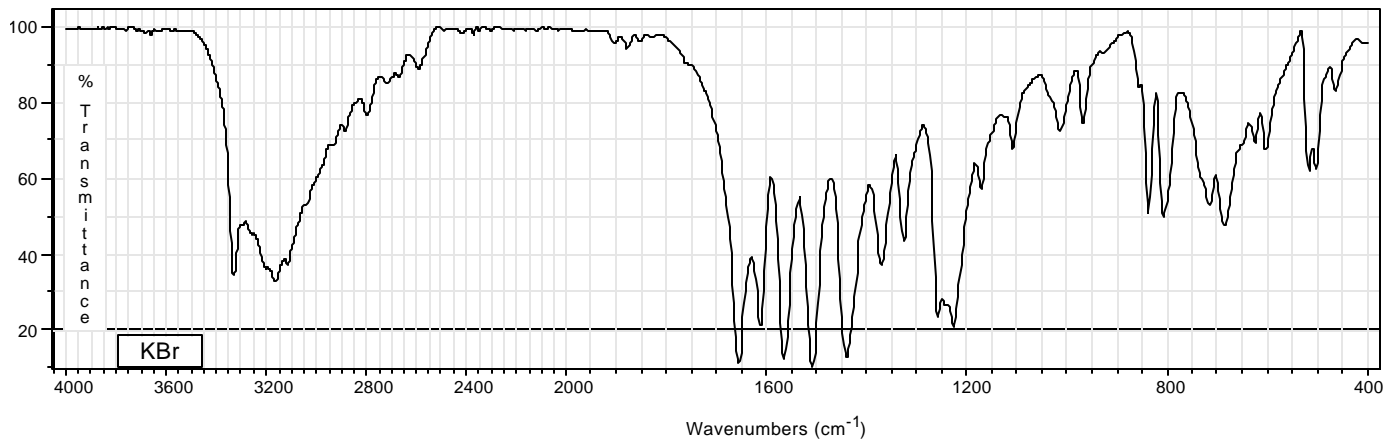
See reverse side for IR & UV spectra of Sigma Reference Standard.

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Product No. **A3035**
Lot 24K8800



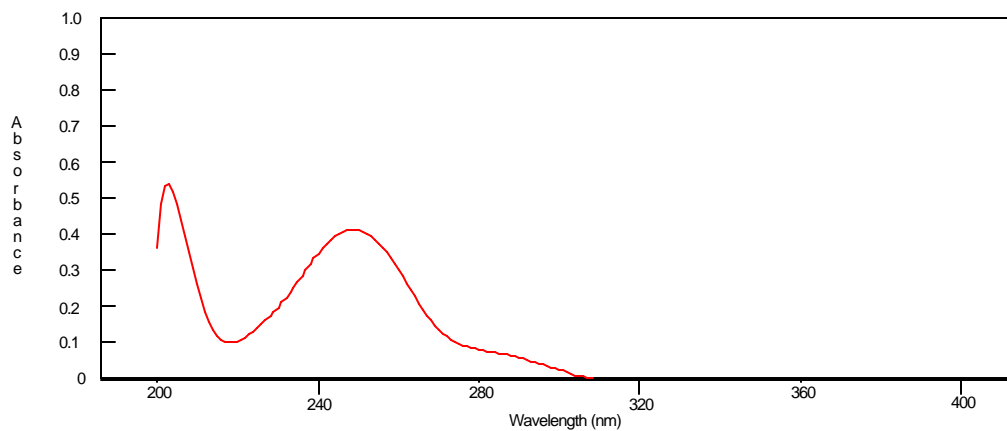
INFRARED SPECTRUM

KBr dispersion



ULTRAVIOLET SPECTRUM

5.00 µg/mL in 0.1 N HCl in methanol



3/04

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.