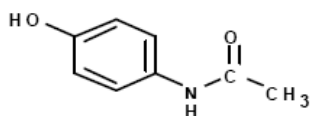


## Product Information

Acetaminophen  
Sigma Reference StandardCatalog Number **A3035**  
Lot Number 070M5015  
Store at Room Temperature

CAS RN 103-90-2

Synonyms: 4'-Hydroxyacetanilide, 4-Acetamidophenol,  
N-Acetyl-4-aminophenol, APAP

## Product Description

Molecular Formula: CH<sub>3</sub>CONHC<sub>6</sub>H<sub>4</sub>OH

Molecular Weight: 151.16

This product meets USP specifications (Current through  
USP 32, 2nd supplement) and is traceable to USP  
Reference Standard lot K01244.

## Precautions and Disclaimer

This product is for R&D use only, not for drug,  
household, or other uses. Please consult the Material  
Safety Data Sheet for information regarding hazards  
and safe handling practices.

## Preparation Instructions

Dry a portion over silica gel for 18 hours before using.  
Use promptly. Discard unused material.

## Storage/Stability

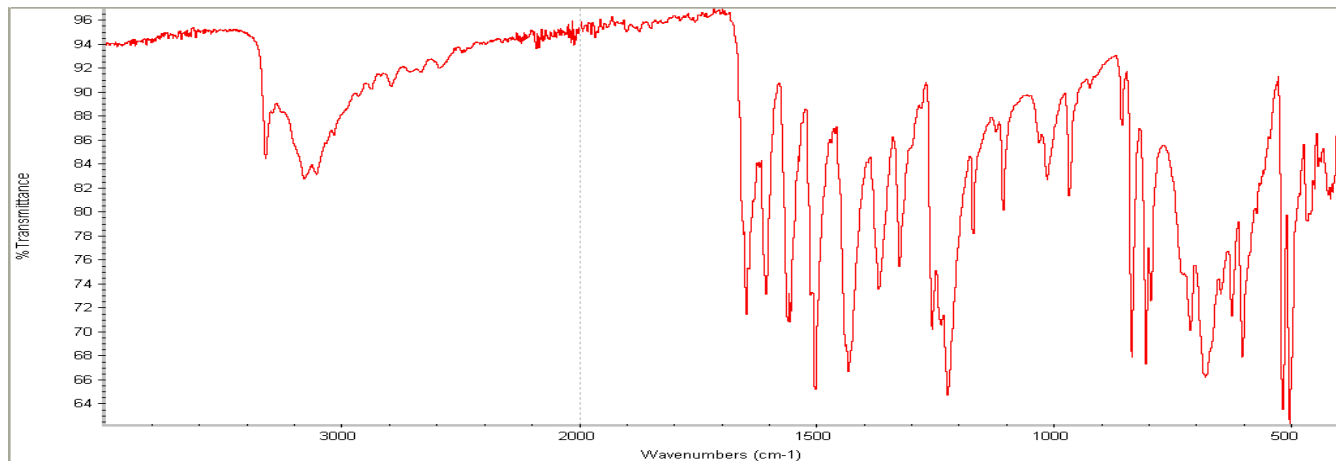
Store in a sealed vial under argon at room temperature.  
Protect from light.

KSP,MAM 09/10-1

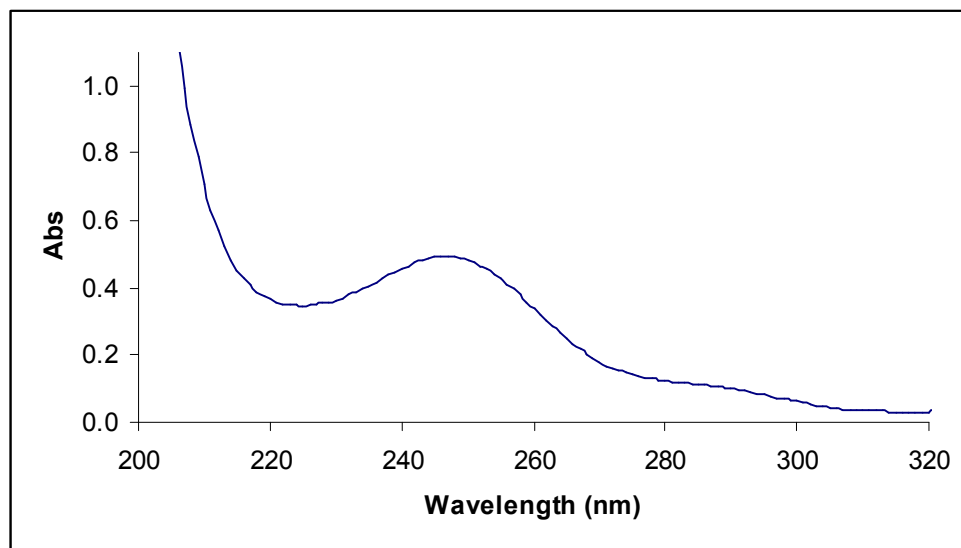
TEST	USP 32 SPECIFICATIONS	Result Sigma Reference Standard Lot 070M5015
Infrared absorption spectrum KBr dispersion <197A>	compares to standard	compares to standard
Ultraviolet absorption spectrum 5 µg/mL 0.1 N HCl in methanol <197U>	compares to standard	compares to standard
Identification C <201>	meets requirement	compares to standard
Melting range <741>	between 168 °C and 172 °C	169 °C
Water, Method I <921>	not more than 0.5%	0.1%
Residue on ignition <281>	not more than 0.1%	0.0%
Chloride <221>	not more than 0.014%	<0.014%
Sulfate <221>	not more than 0.02%	<0.02%
Sulfide	no coloration or spotting of test paper	no coloration or spotting
Heavy metals, Method II <231>	not more than 0.001%	<0.001%
Free p-aminophenol	not more than 0.005%	0.000%
Limit of p-chloroacetanilide	not more than 0.001%	0.000%
Readily carbonizable substances <271>	the test solution has no more color than Matching Fluid A	less than standard
Assay	not less than 98.0 percent and not more than 101.0 percent C <sub>8</sub> H <sub>9</sub> NO <sub>2</sub> , calculated on the anhydrous basis	100.8%
Residual Solvent	meets the requirements	conforms (class 3 solvents only, <0.5%)

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

Infrared Spectrum  
KBr Dispersion



Ultraviolet Spectrum  
5  $\mu\text{g/ml}$  in 0.1 N HCl in Methanol



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