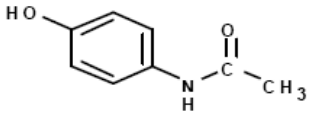
3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

Acetaminophen
Sigma Reference Standard

Catalog Number **A3035**
Lot Number 069K5011
Store at Room Temperature

CAS RN 103-90-2
Synonyms: 4′-Hydroxyacetanilide, 4-Acetamidophenol, *N*-Acetyl-4-aminophenol, APAP



Product Description
Molecular Formula: $CH_3CONHC_6H_4OH$
Molecular Weight: 151.16

This product meets USP specifications (Current through USP 32) and is traceable to USP Reference Standard lot J-1.

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.

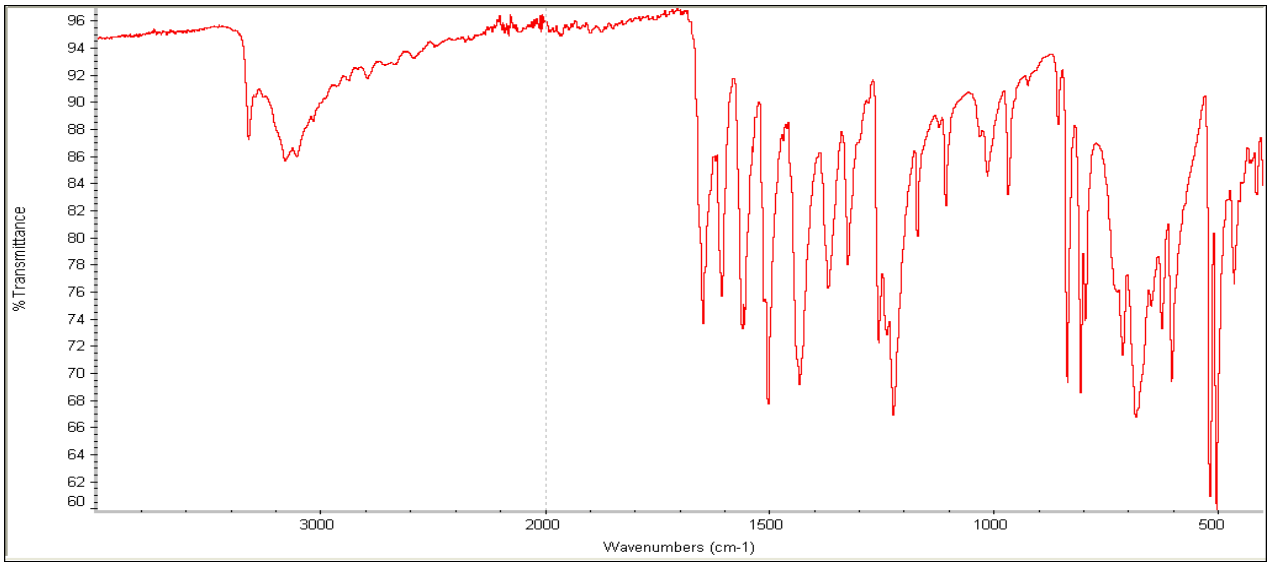
Storage/Stability
Store in a sealed vial under argon at room temperature. Protect from light.

KSP,CJH,MAM 09/10-1

TEST	USP 32 SPECIFICATIONS	Result Sigma Reference Standard Lot 069K5011
Infrared absorption spectrum KBr dispersion <197A>	compares to standard	compares to standard
Ultraviolet absorption spectrum 5µg/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	168.7–169.2 °C
Water, *Method I* <921>	not more than 0.5%	0.14%
Residue on ignition <281>	not more than 0.1%	0.00%
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%	0.00021%
Limit of *p*-chloroacetanilide	not more than 0.001%	0.0000%
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 $C_8H_9NO_2$, calculated on the anhydrous basis	100.5%
Residual Solvent	meets the requirements	conforms (no solvent)

See reverse side for IR spectrum of Sigma Reference Standard

Infrared Spectrum
KBr Dispersion



Ultraviolet Spectrum
12.07 µg/ml in alcohol