



SIGMA-ALDRICH

3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

Product Information

ACETAMINOPHEN SIGMA REFERENCE STANDARD

Product No. **A3035**

Lot No: 109H8807

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

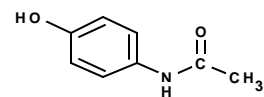
This product meets USP specifications (Current through USP 24) and is traceable to USP Reference Standard lot J.

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 24 SPECIFICATIONS	Result Sigma R.S. Lot 109H8807
Infrared absorption spectrum KBr dispersion <197K>	compares to standard	conforms to USP reference standard lot J
Ultraviolet absorption spectrum 5 µg/mL 0.1 N HCl in methanol <197U>	compares to standard	conforms to USP reference standard lot J
Identification C	meets requirement	meets requirement
Melting range <741>	between 168° and 172°	168.8° - 169.2°
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	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	100.0%

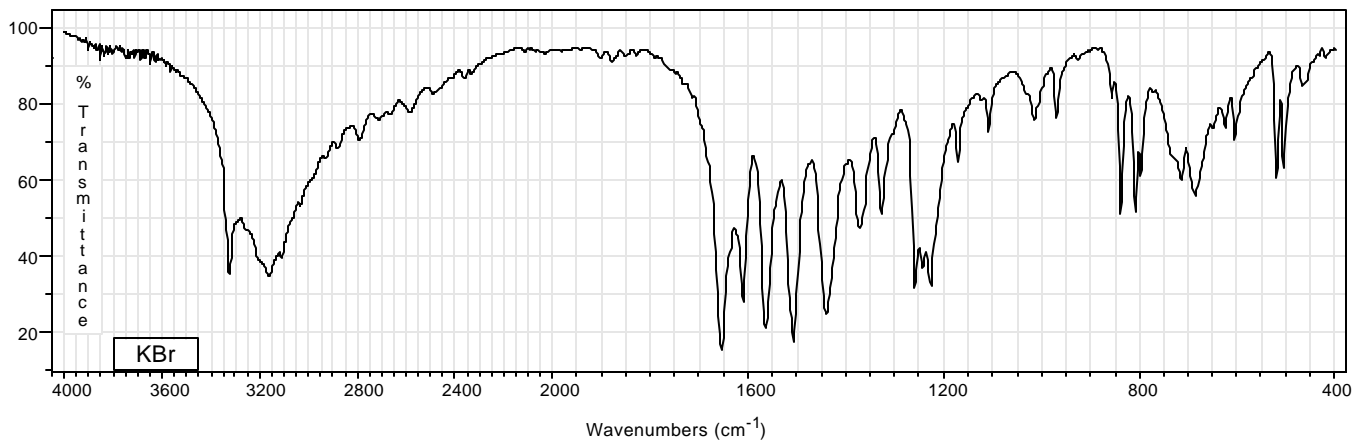
See reverse side for IR & UV spectra of Sigma Reference Standard.

ACETAMINOPHEN
SIGMA REFERENCE STANDARD
Product No. **A3035**
Lot 109H8807



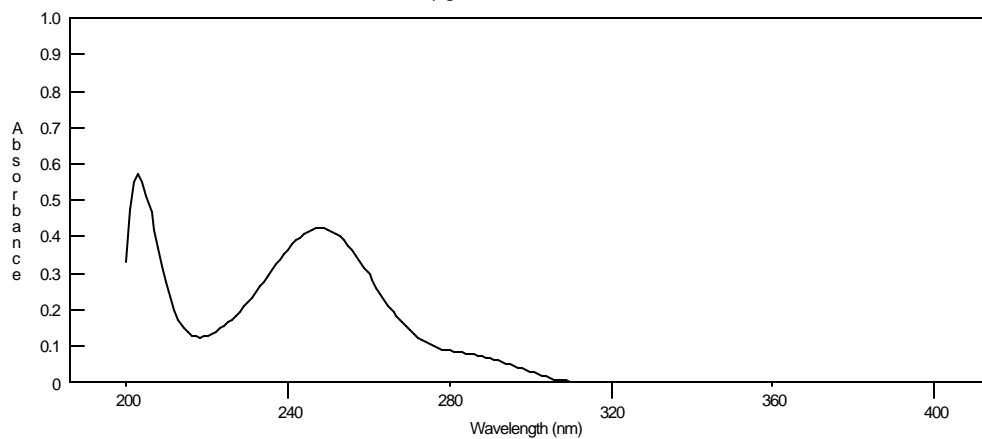
INFRARED SPECTRUM

KBr dispersion



ULTRAVIOLET SPECTRUM

5.06 µg/mL in 0.1 N HCl in methanol



10/99

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.