

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

Xanthine – ≥99.5% (HPLC), purified by recrystallization

Product Number:

X0626

CAS Number:

69-89-6

MDL:

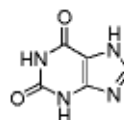
MFCD00078453

Formula:

C₅H₄N₄O₂

Formula Weight:

152.11 g/mol



TEST

Specification

| | |
|----------------------------------|--|
| Appearance (Color) | White |
| Appearance (Form) | Powder |
| Solubility (Color) | Colorless to Very Faint Yellow and Colorless to Very Faint |
| Green-Yellow | |
| Solubility (Turbidity) | Clear |
| 50 mg/mL, 1 M NaOH | |
| Water (by Karl Fischer) | ≤ 2 % |
| Coulometriclly or Volumetrically | |
| Infrared spectrum | Conforms to Structure |
| Carbon (anhydrous) | 38.9 - 40.1 % |
| Nitrogen (anhydrous) | 36.3 - 37.4 % |
| EmM Anhydrous | 8.7 - 9.4 |
| at pH 10.0 | |
| Wavelength | 277 - 278 nm |
| Purity (HPLC) | ≥ 99.5 % |
| Recommended Retest Period | ----- |
| 4 years | |

Specification: PRD.1.ZQ5.10000011899

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.