

# *Chem-Impex International, Inc.*

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## *Product Specifications*

**Catalogue Number** 33344

**Product** **Allopurinol**

1*H*-Pyrazolo(3,4-*d*)pyrimidin-4-ol

4-Hydroxypyrazolo(3,4-*d*)pyrimidine

**CAS Number** 315-30-0

**Molecular Formula** C<sub>5</sub>H<sub>4</sub>N<sub>4</sub>O

**Molecular Weight** 136.11

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**Appearance** Fluffy white to off-white powder

**Solubility** Soluble in solutions of potassium and sodium hydroxides, very slightly soluble in water and in alcohol, practically insoluble in chloroform and in ether.

**Odor** Slight odor

**Infrared Spectrum** Conforms to structure

**Loss on Drying** ≤ 0.5% (dry 1 g in vacuum at 105°C for 5 hrs)

**Residual Solvents** ≤ 220 ppm (Formamide)

**Related Substances** Limit of Hydrazine: ≤ 10 ppm  
Allopurinol related compound A, B, C, D, E: ≤ 0.20%  
Ethyl-(*E/Z*)-3(2-carbethoxy-2-cyanoethenyl)amino-1*H*-pyrazole-4-carboxylate: ≤ 0.2%  
Any individual unspecified impurity: ≤ 0.1%  
Total impurities: ≤ 1.0%

**Purity by HPLC** 98 - 102%

**Grade** USP/EP

**Storage** Store at RT

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**For Laboratory Use Only**