

Status: Currently Official on 13-Feb-2025  
Official Date: Official Prior to 2013  
Document Type: Reagents  
DocId: GUID-26274838-2F60-44B4-BDDD-092DD4E593CD\_1\_en-US  
DOI: [https://doi.org/10.31003/USPNF\\_R1697\\_01\\_01](https://doi.org/10.31003/USPNF_R1697_01_01)  
DOI Ref: 49hts

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## Acetylacetone

(2,4-Pentanedione; Diacetylmethane),  $C_5H_8O_2$  100.12 CAS RN<sup>®</sup>: 123-54-6.—Clear, colorless to slightly yellow, flammable liquid. Soluble in water; miscible with alcohol, with chloroform, with acetone, with ether, and with glacial acetic acid.

**Assay:** Not less than 98% of  $C_5H_8O_2$ , a suitable gas chromatograph equipped with a flame-ionization detector being used and helium being used as the carrier gas. The following conditions have been found suitable: a 3-mm × 1.83-m stainless steel column containing 10% phase G43 on support S1A; the injection port and detector temperatures are maintained at 250° and 310°, respectively; the column temperature is programmed to rise 8° per minute, from 50° to 220°.

**REFRACTIVE INDEX (831):** between 1.4505 and 1.4525, at 20°.

**Auxiliary Information** - Please [check for your question in the FAQs](#) before contacting USP.

| Topic/Question | Contact  | Expert Committee |
|----------------|--|------------------|
| ACETYLACETONE  | <a href="#">Margareth R.C. Marques</a><br>Principal Scientific Liaison | HDQ Headquarters |

**Most Recently Appeared In:**

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