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## 4'-Nitroacetophenone

(*p'*-Nitroacetophenone),  $C_8H_7NO_3$  165.15 CAS RN<sup>®</sup>: 100-19-6.—Yellow crystals.

**Assay:** Inject an appropriate ether solution of the specimen (about 0.5  $\mu$ L) into a suitable gas chromatograph (see [Chromatography \(621\)](#)) equipped with a thermal conductivity detector, helium being used as the carrier gas. The following conditions have been found suitable: a 4-mm  $\times$  1.8-m stainless steel column containing 10% phase G1 on support S1A; the injection port and detector temperatures are maintained at 200° and 300°, respectively; the column temperature is maintained at 170° and programmed to rise 3° per minute to 220°. The area of the 4'-nitroacetophenone peak is not less than 97% of the total peak area.

**MELTING RANGE (741):** between 78° and 80°.

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

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

**Most Recently Appeared In:**

Pharmacopeial Forum: Volume No. Information currently unavailable

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