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Vinylpyrrolidinone

(1-Vinyl-2-pyrrolidinone; 1-Vinyl-2-pyrrolidone; N-Vinylpyrrolidinone; N-Vinylpyrrolidone), C_6H_9NO 111.14 CAS RN[®]: 88-12-0.—
Colorless liquid.

• **ASSAY:** Inject an appropriate volume into a gas chromatograph (see [Chromatography \(621\)](#)) equipped with a flame-ionization detector, helium being used as the carrier gas. The following conditions have been found suitable: a 0.25-mm × 30-m capillary column coated with a 1- μ m layer of G2; the injection port temperature is maintained at 250°; the detector temperature is maintained at 300°; and the column temperature is maintained at 100° and programmed to rise 10° per min to 250°. The area of the C_6H_9NO peak is not less than 99.0% of the total peak area.

• **WATER DETERMINATION, Method I (921):** not more than 0.1%, determined on 2.5 g, using a mixture of 50 mL of methanol and 10 mL of butyrolactone as the solvent.

[NOTE—A suitable grade is available from Merck KGaA/EMD chemicals, catalogue number 8.08518.0250, www.emdchemicals.com.]

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

Topic/Question	Contact	Expert Committee
VINYLPYRROLIDINONE	Margareth R.C. Marques Principal Scientific Liaison	HDQ Headquarters

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