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Acrylic Acid

(2-Propenoic Acid; Vinylformic Acid), $C_3H_4O_2$ 72.06 CAS RN[®]: 79-10-7.—Colorless liquid. Miscible with water, with alcohol, and with ether.

Assay: Inject an appropriate specimen 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 phase G2; the injection port temperature is maintained at 150°; the detector temperature is maintained at 300°; and the column temperature is maintained at 50° and programmed to rise 10° per minute to 200°. The area of the $C_3H_4O_2$ peak is not less than 99% of the total peak area.

REFRACTIVE INDEX (831): between 1.419° and 1.423° at 20°.

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

| Topic/Question | Contact | Expert Committee |
|----------------|------------------------------------------------------------------------|------------------|
| ACRYLIC ACID | Margareth R.C. Marques Principal Scientific Liaison | HDQ Headquarters |

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