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## 2,3,7,8-Tetrachlorodibenzo-p-dioxin, <sup>13</sup>C-labeled,

<sup>13</sup>C<sub>12</sub>H<sub>4</sub>Cl<sub>4</sub>O<sub>2</sub> 333.84—Clear, colorless liquid.

• **Assay:** Inject an appropriate volume into a gas chromatograph (see [Chromatography \(621\)](#)) equipped with an electron-capture 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-μm layer of phase G2; the injection port temperature is maintained at 300°; the detector temperature is maintained at 300°; and the column temperature is maintained at 70° and programmed to rise 15° per minute to 300°. The area of the <sup>13</sup>C<sub>12</sub>H<sub>4</sub>Cl<sub>4</sub>O<sub>2</sub> peak is not less than 99.0% of the total peak area.

[NOTE—A suitable grade is available from Cambridge Isotopes Laboratories ([www.isotope.com](http://www.isotope.com)).]

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

Topic/Question	Contact	Expert Committee
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN, 13C-LABELED	<a href="#">Margareth R.C. Marques</a> Principal Scientific Liaison	HDQ Headquarters

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