
Tetradecylphosphonic Acid (TDPA) Bulk Supply for the Electronics and Display Industries

Tetradecylphosphonic Acid (TDPA) represents a critical raw material used in high-tech display and other electronics-based applications. Richman Chemical (RCI) has proven itself a reliable supplier of customized TDPA (quantities and purities) to such markets for the better part of two decades.

Applications-wise, TDPA forms a self-assembled monolayer (SAM) to functionalize a variety of nanoparticles. For example, TDPA caps copper nanoparticles to protect them from oxidation. It also coats cesium lead bromide (CsPbBr₃) perovskite quantum dots crucial to the production of white light emitting diodes (wLED). And, the critical raw material plays an important role in the synthesis of cadmium sulfate (CdS) cores used for the fabrication of cadmium selenium (CdSe)/CdS core Quantum Dots (QDs) for premium electronic display markets. Please contact us immediately if a high-quality and reliable TDPA supply is critical to your supply chain!

Primary Specifications:

- **Synonyms: 2-Hydroxy-3-phenylmethoxybenzoic acid**
- **Formula: C₁₄H₃₁O₃P**
- **Molecular Weight: 278.37**
- **CAS #: 4671-75-4**
- **Batch Size: kg to MT**
- **Material in Inventory**

* Custom Grades Available

Test	Specification
Appearance (color)	White to Off-white
Appearance (form)	Powder, crystals, flakes
Solubility (2g/20ml solvent, Toluene/Methanol)	Colorless clear liquid
Purity 1: Loss on Drying (LOD)	<1%
Purity 2: Assay (GC)	>99%
Insolubles (wt%)	≤0.5%

Richman Chemical, Inc. (RCI) was founded in 1988 and pioneered the independent outsourcing model. It is the only company in the market that provides its services throughout many markets including biotech, pharmaceutical and medical devices, specialty chemicals, nanotechnology, food and beverage, and flavor and fragrance.

Benefit from Richman Chemical's over 3 decades of expertise by contacting Christopher Kulp, Chief Commercial Officer, at (215) 628-2946 ext 13 or via email at clk@richmanchemical.com. Additional information can be found visiting Richman Chemical Inc. at www.richmanchemical.com.