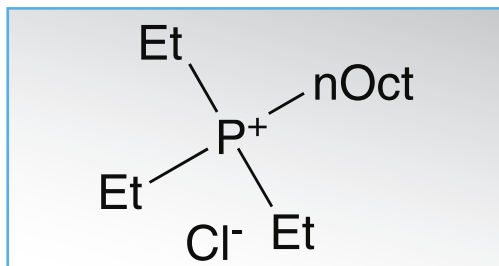


Sold in collaboration with Solvay.

Triethyl(octyl)phosphonium chloride (45-55% solution), CYPHOS® IL 541W



Product Details	
Color and Form	Colorless to pale yellow liquid
CAS No.	482647-71-2
Molecular Formula	C ₁₄ H ₃₂ ClP
Molecular Weight	266.83 g/mol

CYPHOS® IL 541W is a 50% solution of triethyl(octyl) phosphonium chloride in water. **CYPHOS® IL 541W** contains an asymmetric cation with three small substituents and is amenable to chemical modification (anion exchange) with the chloride anion. With high thermal stability, large liquid range and solubility in a variety of common organic solvents **CYPHOS® IL 541W** can be employed in many different applications.

Technical Notes:

- CYPHOS® IL 541W** is a new offering with from Solvay. With a diverse range of features, many new applications are possible. This ionic liquid has inherently low viscosity compared to the ammonium based analogues. ¹
- Furthermore, this IL has been incorporated into polyester resin compositions to improve toughness of the systems. ²

References:

- Phys. Chem. Chem. Phys.* **2015**, *17*, 20205-20216.
- JP 2003012899*, **2013**.

Storage and Handling:

Always wear approved safety glasses, protective gloves, and clothing when handling chemical substances. Handle the product in an efficient fume hood and avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Remove and wash contaminated clothing promptly.

Avoid release into the environment. **CYPHOS® IL 541W** is stable over long periods of time (12+ months) and will not polymerize. **CYPHOS® IL 541W** should not be stored in air or near oxidizing agents. Potential hazardous decomposition products are oxides of carbon and/or phosphorus. Handle in accordance with good industrial hygiene and safety practices. Avoid unnecessary exposure to the product. For additional health, safety and handling information, refer to the product SDS. **CYPHOS® IL 541W** is classified for skin corrosion and can cause serious eye damage. Keep containers tightly sealed, and store in a dry area between 10-30 °C. Rotate stock using the oldest material first.

Visit www.strem.com for new product information and a searchable catalog.

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