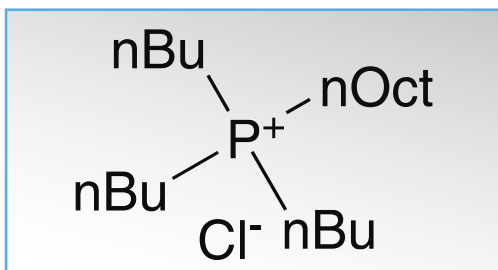


Sold in collaboration with Solvay.

Tributyl(octyl)phosphonium chloride, min. 93%, CYPHOS® IL 253



Product Details	
Purity	min. 93%
Color and Form	Colorless to pale yellow viscous liquid
Density	0.92
Flash Point	306°F
Boiling Point	>200°C
CAS No.	56315-19-6
Molecular Formula	C ₂₀ H ₄₄ ClP
Molecular Weight	351 g/mol

CYPHOS® IL 253 is a readily available, high purity ionic liquid. **CYPHOS® IL 253** has been exploited for a wide variety of applications and is amenable to chemical modification (anion exchange). With high thermal stability, large liquid range and solubility in a variety of common solvents **CYPHOS® IL 253** is employed in many different applications. Further features of **CYPHOS® IL 253** include: ultra-low vapor pressure, miscible in water, non-flammable and inherent polarity.

Technical Notes:

- CYPHOS® IL 253** has found use in a diverse range of applications. These applications include use as a solvent in dehydrohalogenation of halogenated organic compounds.¹
- Purification (desulfurization) of naphtha using CYPHOS® IL 253 has also been investigated and incorporated in conversion of hydrocarbons^{2,3}
- It has also shown positive performance in antiwear lubricant applications as an additive.⁴
- Materials scientists have investigated it as a solvent for producing nanostructured materials as well as a being incorporated into rare earth containing ionic liquids with luminescent and magnetic properties.^{5,6}

References:

1. *WO Patent 2015014783, 2015.*
2. *US Patent 20150001135, 2015.*
3. *WO Patent 2014193537, 2014.*
4. *ACS Applied Materials & Interfaces, 2014, 6, 22585-22593.*
5. *J. Am. Chem. Soc. 2014, 136, 15465-15468.*
6. *Journal of Physical Chemistry B, 2016, 120, 5301-5311.*

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 253** is stable over long periods of time (12+ months) and will not polymerize. **CYPHOS® IL 253** should not be stored in air or near oxidizing agents. Potential hazardous decomposition products are oxides of carbon and/or phosphorus and hydrochloric acid. 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 253** is classified for skin corrosion and can cause serious eye damage. Keep containers tightly sealed, and store in a dry area between 20-30 °C. Rotate stock using the oldest material first.

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

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