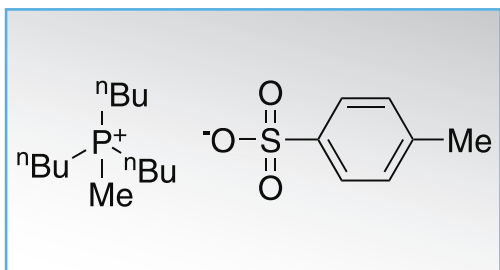


Sold in collaboration with Solvay.

Tributylmethylphosphonium-toluenesulfonate, min. 95% (45-55% in water), CYPHOS® IL 120W



Product Details	
Purity	min. 95%
Color and Form	Colorless to pale yellow liquid
CAS No.	55767-12-9
Molecular Formula	C ₁₃ H ₃₀ P(C ₇ H ₇ O ₃ S)
Molecular Weight	388.55 g/mol

CYPHOS® IL 120W is a solution of 50% tributyl(methyl) phosphonium tosylate in water. **CYPHOS® IL 120** 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 120W** has many potential uses. Further features of **CYPHOS® IL 120W** include: ultra-low vapor pressure, water soluble, non-flammable and inherent polarity.

Technical Notes:

- CYPHOS® IL 120W** represents a new phosphonium salt to Solvays product offering. This molecule has inherent hydrotropic properties.¹
- It has been incorporated into liquid polymer systems for catalytic reductions.²
- Furthermore, **CYPHOS® IL 120W** has been investigated for positive effects on the reaction of primary aromatic amines and the effects on UV cured polymer systems.^{3, 4}
- CYPHOS® IL 120W** has been exploited in CdS thin film electrodeposition as well as removal of sulphur from liquid hydrocarbons.^{5, 6}

References:

- Green Chemistry*, **2015**, 17, 3948-3963.
- Green Chemistry*, **2006**, 8, 807-815.
- Organic & Biomolecular Chemistry*, **2010**, 22, 5187-5198.
- Macromolecular Chemistry and Physics*, **2013**, 7, 787-796.
- Phys. Chem. Chem. Phys.*, **2009**, 11, 8532-8537.
- WO Patent 2007106943*, **2007**.

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 120W** is stable over long periods of time (12+ months) and will not polymerize. **CYPHOS® IL 120W** 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 120W** 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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