

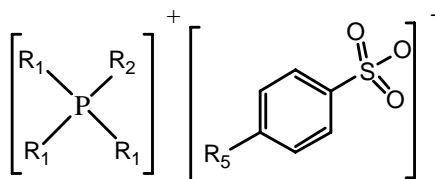
CYPHOS[®] IL 106

Chemical Name: triisobutyl(methyl) phosphonium tosylate

Chemical Abstracts Number: [344774-05-6]

Molecular Formula: C₂₀H₃₇O₃PS

Formula Weight: 388.55



R₁ = isobutyl R₂, R₃ = methyl

Properties:

Assay (% by ³¹ P NMR)	>99
Total halide content (ppm)	30
Water (% by K.F.)	0.32
Physical State (R.T.)	Solid
Melting Point (° C)	45
Density (liquid at 25 °C - g/cc)	1.07
Density (solid at 22 °C – g/cc)	1.102
Viscosity (25 °C - mPa.s)	(solid)

Co-Solvent Miscibility:

<u>Solvent</u>	<u>Miscible(Y/N)⁽¹⁾</u>
Water	Y
2-hydroxypropane (IPA)	Y
Tetrahydrofuran	Y
Dichloromethane	Y
Diethylether	Y
Toluene	Y
Hexane	N

(1) Visual observation of a 1:1 mixture
Date: 6/16/08

CYPHOS IL 106 Scholarly References

- 1) Li, Kaichang; Zhou, Katie; ACS Symposium Series (2007), 954 (Materials, Chemicals, and Energy from Forest Biomass), 168-181; “Room temperature ionic liquids as lubricants for wood-polyethylene composites.”
- 2) D. Baumann, A.J. Daugulis and P.G. Jessop; Appl. Microbiol. Biotechnol 2005, 67, 131-137; “Phosphonium ionic liquids for degradation of phenol in a two-phase partitioning bioreactor.”

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