

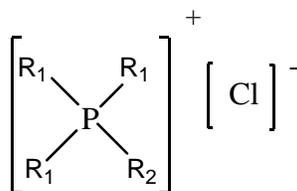
CYPHOS® IL 167

Chemical Name: tributyl(tetradecyl)phosphonium chloride

Chemical Abstracts Number: [81741-28-8]

Molecular Formula: C₂₆H₅₆ClP

Formula Weight: 435.15



R₁ = butyl; R₂ = tetradecyl

Properties:

| | |
|----------------------------------|-------|
| Assay (% by ³¹ P NMR) | 97.1 |
| Water (% by K.F.) | 0.62 |
| Total halide content (ppm) | - |
| Physical State (R.T.) | Solid |
| Melting Point (°C) | 45 |
| Glass Transition Temp. (°C) | |
| Density (25 °C - g/cc) | |
| Viscosity (40 °C – mPa.s or cP) | |

Co-Solvent Miscibility:

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

(1) Visual observation of a 1:1 mixture

(2) Supercooled

Date: 7/14/08

CYPHOS IL 167 Scholarly References

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