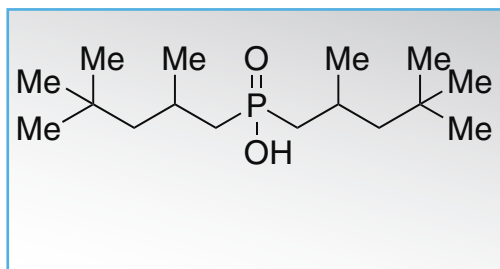


Sold in collaboration with Solvay.

Bis(2,4,4-trimethylpentyl)phosphinic acid, min. 85%, CYTOP® 501



| Product Details | |
|-------------------|--------------------------------------------------|
| Purity | min. 85% |
| Color and Form | Yellow liquid |
| Density | 0.92 |
| Flash Point | >226°F |
| CAS No. | 27661-42-3 |
| Molecular Formula | C ₁₆ H ₃₅ O ₂ P |
| Molecular Weight | 290.42 g/mol |

CYTOP® 501, bis(2,4,4-trimethylpentyl)phosphinic acid, is colourless to light yellow liquid and has found application in quantum dot manufacture, surface treatment and as an extractant.

Technical Notes:

- CYTOP 501** has been used as a capping ligand in the manufacture of nanotetrapods.¹
- It has also found broad efficacy in the field of metal extraction, for example in the separation of cobalt and nickel from acid sulfate liquors such as those produced in the High Pressure Acid Leaching processing of nickel laterites and the extraction of uranium.^{2,3}
- The product has been used as a component of surface treatments to enhance the corrosion and wear resistance of metal substrates.⁴

References:

- Chem. Mater.* **2016**, 28, 1187-1195.
- Hydrometallurgy* **2014**, 150, 173-177.
- Hydrometallurgy* **2015**, 152, 7-12.
- US Patent* 8,741,390, **2014**.

Storage and Handling:

Handle in accordance with good industrial hygiene and safety practices including avoiding unnecessary exposure to the product and removal of material from skin, eyes and clothing. For additional health, safety and handling information, refer to the product SDS (**CYTOP 501** is classified as a toxic material). Keep containers tightly sealed and store in a dry area at room temperature. Rotate stock using the oldest material first.

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

Strem Chemicals, Inc.
7 Mulliken Way
Newburyport, MA 01950
U.S.A
Tel: 978.499.1600
Fax: 978.465.3104
Email: info@strem.com

Strem Chemicals, Inc.
15 rue de l'Atome
Zone Industrielle
67800 BISCHHEIM France
Tel: (33) 03 88 62 52 60
Fax: (33) 03 88 62 26 81
Email: info.europe@strem.com

Strem Chemicals, Inc.
Postfach 1215
77672 KEHL
Germany
Tel: 0 78 51/ 7 58 79
Email: info.europe@strem.com

Strem Chemicals UK Ltd.
An Independent Distributor of Strem Chemicals Products
Newton Hall, Town Street
Newton, Cambridge
England CB22 7ZE
Tel: 0845 643 7263
Fax: 0845 643 7362
Email: enquiries@strem.co.uk