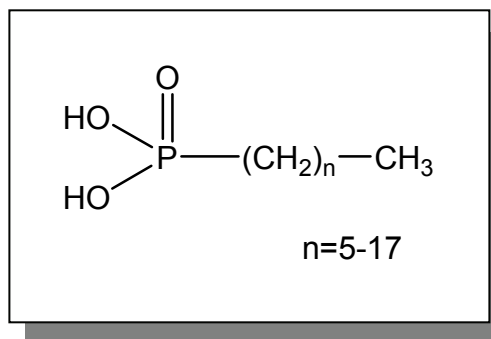


## General Use:

Linear alkyl Phosphonic acids and their phosphonate salts are surfactants because of their classic bifunctional chemical structure,  $RP(O)(OH)_2$ , consisting of both non-polar organic hydrophobic groups and anionic inorganic hydrophilic groups. Like the related alkyl sulfonates, they are used as detergents, dispersants, emulsifiers, and chelating agents. Alkyl phosphonic acids are typically sparingly soluble in both organic solvents and water, but become more soluble in water when neutralized to phosphonates at neutral to high pH.

## References:

1. Langmuir, 23 (18), 9287-9292, 2007.
2. US patent 3630790.
3. Nano Lett., Vol. 4, No. 12, 2004, 2361-2365.
4. Nanoscale Res. Lett. (2008), 3:109-117.
5. Adv. Mater., 2003, 15, No 1, January 3.
6. J. Phys. Chem. b 2005, 109, 1554-1562.
7. WO2006116337 20061102.
8. Journal of Physics: Conference Series  
61 (2007) 869-873.



<b>96-1525</b>	<b>Long-Chain n-Alkylphosphonic Acid Kit</b> Contains 1g unit of each of the following: 15-0958 n-Decylphosphonic acid, min. 97% 15-1835 n-Dodecylphosphonic acid, min. 97% 15-2400 n-Hexadecylphosphonic acid, min. 97% 15-2410 n-Hexylphosphonic acid, min. 97% 15-3510 n-Octadecylphosphonic acid, min. 97% 15-3520 n-Octylphosphonic acid, min. 97% 15-5145 n-Tetradecylphosphonic acid, min. 97%	1kit
<b>15-0958</b>	<b>n-Decylphosphonic acid, min. 97% [6874-60-8]</b> $CH_3(CH_2)_9P(O)(OH)_2$ ; FW: 222.26; white to off-white pwdr.; m.p. 103-104°	1g 5g
<b>15-1835</b>	<b>n-Dodecylphosphonic acid, min. 97% [5137-70-2]</b> $CH_3(CH_2)_{11}P(O)(OH)_2$ ; FW: 250.31; white to off-white pwdr.; m.p. 96-98°	1g 5g
<b>15-2400</b>	<b>n-Hexadecylphosphonic acid, min. 97% [4721-17-9]</b> $CH_3(CH_2)_{15}P(O)(OH)_2$ ; FW: 306.42; white to off-white pwdr.; m.p. 96-99°	1g 5g
<b>15-2410</b>	<b>n-Hexylphosphonic acid, min. 97% [4721-24-8]</b> $CH_3(CH_2)_5P(O)(OH)_2$ ; FW: 166.16; white to off-white pwdr.; m.p. 105-106°	1g 5g
<b>15-3510</b>	<b>n-Octadecylphosphonic acid, min. 97% [4724-47-4]</b> $CH_3(CH_2)_{17}P(O)(OH)_2$ ; FW: 334.47; white to off-white pwdr.; m.p. 100-101°	1g 5g
<b>15-3520</b>	<b>n-Octylphosphonic acid, min. 97% [4724-48-5]</b> $CH_3(CH_2)_7P(O)(OH)_2$ ; FW: 194.21; white to off-white pwdr.; m.p. 102-103°	1g 5g
<b>15-5145</b>	<b>n-Tetradecylphosphonic acid, min. 97% [4671-75-4]</b> $CH_3(CH_2)_{13}P(O)(OH)_2$ ; FW: 278.37; white to off-white pwdr.; m.p. 96-98°	1g 5g

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