

Molecular Origami of HPO_4^{2-}
given information

ElementNames	[(P) (O) (O) (O) (O)]	
distance	152.014	P ¹ -O ³
distance	152.386	P ¹ -O ²
distance	153.278	P ¹ -O ¹
distance	158.446	P ¹ -O ⁴
angle	104.281	O ⁴ -P ¹ -O ²
	245.4	O ⁴ -O ²
angle	108.520	O ⁴ -P ¹ -O ³
	252.	O ⁴ -O ³
angle	108.824	O ⁴ -P ¹ -O ¹
	253.5	O ⁴ -O ¹
angle	110.681	O ³ -P ¹ -O ¹
	251.1	O ³ -O ¹
angle	111.571	O ² -P ¹ -O ¹
	252.8	O ² -O ¹
angle	112.666	O ³ -P ¹ -O ²
	253.3	O ³ -O ²
dopage	T	
AutoAlign	F	

structure type: XABCD

!P1
O1
O2
O3
O4
HPO4²⁻

```
scale 250,000,000 : 1
units: pm
offsetx 0.26 offsety 1.77
```

The ORTEP diagram illustrates the crystal structure of 250M:1 HPO_4^{2-} . The structure is shown as a series of repeating units along the c-axis. The phosphorus atoms (P) are located at the center of each tetrahedron, and the oxygen atoms (O) are at the vertices. The diagram includes bond lengths (e.g., P—O distances) and angles (e.g., O—P—O angles). The structure is labeled with '250M:1' and ' HPO_4^{2-} '. The diagram is oriented with the c-axis vertical and the a and b axes horizontal.

actual size: 172 544

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