$P\,2_1\,2_1\,2$ $\quad D_2^3$ $\quad$ 222 $\quad$ Orthorhombic

No. 18 $\quad P\ 2_1\ 2_1\ 2$ $\quad$ Patterson symmetry $P\ m\ m\ m$

Origin at intersection of 2 with perpendicular plane containing 2_1 axes

Positions

Multiplicity, Wyckoff letter, Site symmetry, Coordinates		Patterson peaks (U, V, W (Multiplicity))		
4 c 1	x,y,z; -x,-y,z; etc.			
	0, 0, 0 (4)	***2x, 2y, 0 (1)***	***1/2+2x, 1/2, 2z (1)***	***1/2, 1/2+2y, 2z (1)***
2 b . . 2	0,1/2,z; 1/2,0,-z			
	0, 0, 0 (2)	***1/2, 1/2, 2z (1)***		
2 a . . 2	0,0,z; 1/2,1/2,-z			
	0, 0, 0 (2)	***1/2, 1/2, 2z (1)***		

Vectors between two sets of unique atoms

Wyckoff letters		Wyckoff letters
c, c	***x1-x2, y1-y2, z1-z2 (1)***	
	x1+x2, y1+y2, z1-z2 (1)	
	1/2+x1+x2, 1/2+y1-y2, z1+z2 (1)	
	1/2+x1-x2, 1/2+y1+y2, z1+z2 (1)	
c, b	***x1, 1/2+y1, z1-z2 (1)***	
	1/2+x1, y1, z1+z2 (1)	
c, a	***x1, y1, z1-z2 (1)***	
	1/2+x1, 1/2+y1, z1+z2 (1)	
b, b	***0, 0, z1-z2 (2)***	
	1/2, 1/2, z1+z2 (2)	
b, a	***0, 1/2, z1-z2 (2)***	
	1/2, 0, z1+z2 (2)	
a, a	***0, 0, z1-z2 (2)***	
	1/2, 1/2, z1+z2 (2)	