

C_{2v}^2
 $Pmc2_1$

No. 26

 $Pmc2_1$
Generators selected (1); $t(1,0,0)$; $t(0,1,0)$; $t(0,0,1)$; (2); (3)

General position

 Multiplicity,
 Wyckoff letter,
 Site symmetry

Coordinates

 4 c 1 (1) x, y, z (2) $\bar{x}, \bar{y}, z + \frac{1}{2}$ (3) $x, \bar{y}, z + \frac{1}{2}$ (4) \bar{x}, y, z
I Maximal translationengleiche subgroups

[2] $P1c1$ (7)	1; 3	
[2] $Pm11$ (6, $P1m1$)	1; 4	c, a, b
[2] $P112_1$ (4)	1; 2	

II Maximal klassengleiche subgroups

• Enlarged unit cell

[2] $\mathbf{a}' = 2\mathbf{a}$			
$Pmn2_1$ (31)	$\langle 2; 3 + (1, 0, 0) \rangle$	2a, b, c	1/2, 0, 0
$Pmn2_1$ (31)	$\langle (2; 3) + (1, 0, 0) \rangle$	2a, b, c	
$Pmc2_1$ (26)	$\langle 2; 3 \rangle$	2a, b, c	
$Pmc2_1$ (26)	$\langle 3; 2 + (1, 0, 0) \rangle$	2a, b, c	1/2, 0, 0
[2] $\mathbf{b}' = 2\mathbf{b}$			
$Pbc2_1$ (29, $Pca2_1$)	$\langle 2; 3 + (0, 1, 0) \rangle$	-2b, a, c	
$Pbc2_1$ (29, $Pca2_1$)	$\langle 3; 2 + (0, 1, 0) \rangle$	-2b, a, c	0, 1/2, 0
$Pmc2_1$ (26)	$\langle 2; 3 \rangle$	a, 2b, c	
$Pmc2_1$ (26)	$\langle (2; 3) + (0, 1, 0) \rangle$	a, 2b, c	0, 1/2, 0
[2] $\mathbf{a}' = 2\mathbf{a}, \mathbf{b}' = 2\mathbf{b}$			
$Cmc2_1$ (36)	$\langle 2; 3 \rangle$	2a, 2b, c	
$Cmc2_1$ (36)	$\langle 3; 2 + (1, 0, 0) \rangle$	2a, 2b, c	1/2, 0, 0
$Cmc2_1$ (36)	$\langle (2; 3) + (0, 1, 0) \rangle$	2a, 2b, c	0, 1/2, 0
$Cmc2_1$ (36)	$\langle 2 + (1, 1, 0); 3 + (0, 1, 0) \rangle$	2a, 2b, c	1/2, 1/2, 0
[3] $\mathbf{a}' = 3\mathbf{a}$			
$Pmc2_1$ (26)	$\langle 2; 3 \rangle$	3a, b, c	
$Pmc2_1$ (26)	$\langle 3; 2 + (2, 0, 0) \rangle$	3a, b, c	1, 0, 0
$Pmc2_1$ (26)	$\langle 3; 2 + (4, 0, 0) \rangle$	3a, b, c	2, 0, 0
[3] $\mathbf{b}' = 3\mathbf{b}$			
$Pmc2_1$ (26)	$\langle 2; 3 \rangle$	a, 3b, c	
$Pmc2_1$ (26)	$\langle (2; 3) + (0, 2, 0) \rangle$	a, 3b, c	0, 1, 0
$Pmc2_1$ (26)	$\langle (2; 3) + (0, 4, 0) \rangle$	a, 3b, c	0, 2, 0
[3] $\mathbf{c}' = 3\mathbf{c}$			
$Pmc2_1$ (26)	$\langle (2; 3) + (0, 0, 1) \rangle$	a, b, 3c	

• Series of maximal isomorphic subgroups

[p] $\mathbf{a}' = p\mathbf{a}$			
$Pmc2_1$ (26)	$\langle 3; 2 + (2u, 0, 0) \rangle$	pa, b, c	$u, 0, 0$
	$p > 2; 0 \leq u < p$		
	p conjugate subgroups for the prime p		
[p] $\mathbf{b}' = p\mathbf{b}$			
$Pmc2_1$ (26)	$\langle (2; 3) + (0, 2u, 0) \rangle$	a, pb, c	$0, u, 0$
	$p > 2; 0 \leq u < p$		
	p conjugate subgroups for the prime p		
[p] $\mathbf{c}' = p\mathbf{c}$			
$Pmc2_1$ (26)	$\langle (2; 3) + (0, 0, \frac{p}{2} - \frac{1}{2}) \rangle$	a, b, pc	
	$p > 2$		
	no conjugate subgroups		

I Minimal translationengleiche supergroups

 [2] $Pmma$ (51); [2] $Pbam$ (55); [2] $Pbcm$ (57); [2] $Pnma$ (62)

II Minimal non-isomorphic klassengleiche supergroups

• Additional centring translations

 [2] $Cmc2_1$ (36); [2] $Amm2$ (38); [2] $Bme2$ (39, $Aem2$); [2] $Ima2$ (46)

• Decreased unit cell

 [2] $\mathbf{c}' = \frac{1}{2}\mathbf{c}$ $Pmm2$ (25)