

$P1$

C_1^1

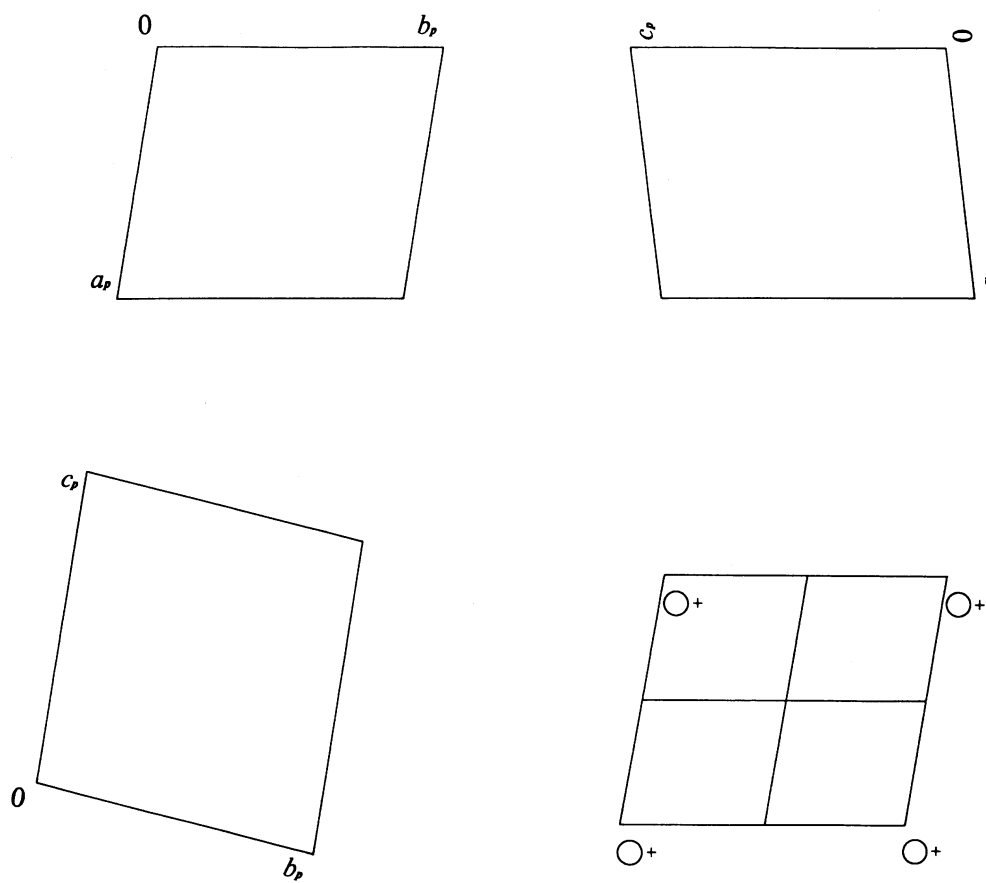
1

Triclinic

No. 1

$P1$

Patterson symmetry $P\bar{1}$



Drawings for type II cell. Proper cell reduction (Section 3.1.3) gives either a type I (α, β, γ acute) or a type II (α, β, γ non-acute) cell.

Origin arbitrary

Asymmetric unit $0 \leq x \leq 1; 0 \leq y \leq 1; 0 \leq z \leq 1$

Symmetry operations

(1) 1

Generators selected (1); $t(1,0,0)$; $t(0,1,0)$; $t(0,0,1)$

Positions

Multiplicity,
Wyckoff letter,
Site symmetry

Coordinates

Reflection conditions

1 a 1 (1) x, y, z

General:

no conditions

Symmetry of special projections

Along $[001]$ $p1$

$\mathbf{a}' = \mathbf{a}_p$ $\mathbf{b}' = \mathbf{b}_p$

Origin at $0, 0, z$

Along $[100]$ $p1$

$\mathbf{a}' = \mathbf{b}_p$ $\mathbf{b}' = \mathbf{c}_p$

Origin at $x, 0, 0$

Along $[010]$ $p1$

$\mathbf{a}' = \mathbf{c}_p$ $\mathbf{b}' = \mathbf{a}_p$

Origin at $0, y, 0$