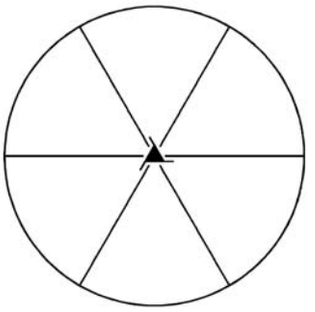
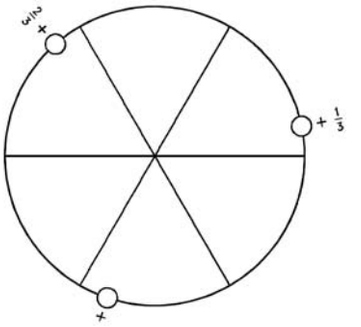
$\not p 3_1$ 3 Trigonal

No. 43 $\not p 3_1$ Patterson symmetry $\not p \bar{3}$





Origin on 3_1

Asymmetric unit $0 \le x; \quad 0 \le y; \quad 0 \le z \le 1$

Symmetry operations

(1) 1 (2) $3^+(\frac{1}{3})$ $0,0,z$ (3) $3^-(\frac{2}{3})$ $0,0,z$

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

Positions

Multiplicity, Wyckoff letter, Site symmetry	Coordinates	Reflection conditions
		General:
3 a 1	(1) x,y,z (2) $\bar{y},x-y,z+\frac{1}{3}$ (3) $\bar{x}+y,\bar{x},z+\frac{2}{3}$	l : $l=3n$

Symmetry of special projections

Along [001] 3
Origin at $0,0,z$

Along [100] $P1$
$\mathbf{a}'=\mathbf{c}$
Origin at $x,0,0$

Along [210] $P1$
$\mathbf{a}'=\mathbf{c}$
Origin at $x,\frac{1}{2}x,0$

Maximal non-isotypic non-enantiomorphic subgroups

I [3] $P1$ (1) 1
IIa none
IIb none

Maximal isotypic subgroups and enantiomorphic subgroups of lowest index

IIc [2] $P3_2$ ($\mathbf{c}'=2\mathbf{c}$) (44); [7] $P3_1$ ($\mathbf{c}'=7\mathbf{c}$) (43)

Minimal non-isotypic non-enantiomorphic supergroups

I [2] $P3_1 12$ (47); [2] $P6_1$ (54); [2] $P6_4$ (57)
II [3] $P3$ ($\mathbf{c}'=\frac{1}{3}\mathbf{c}$) (42)