

SG No. 8 C_s^3 Cm (b-axis setting) [monoclinic]

* generator : $\{m_{010}|0\}$

* symmetry operation $+ [0, 0, 0], \quad + [\frac{1}{2}, \frac{1}{2}, 0]$

Table 1: Symmetry operations for 3d polar vector.

No.	tag	matrix (polar)	det
1	$\{1 0\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$	1
2	$\{m_{010} 0\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$	-1