Table 1: The 32 Crystallographic Point Groups

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$\mathbf{Crystal}$	Laue Class	9		
System		Full	Short	
Triclinic	<u>1</u>	1	1	$C_1$
HICHINC	1	$\overline{1}$	$\overline{1}$	$\frac{C_i = S_2}{C_2}$
	2	2	2	$C_2$
Monoclinic		m	m	$C_s = C_{1h}$
	m	2	2	$C_{2h}$
		m	m	
Orthorhombic		222	222	$D_2$
	mmm	mm2	mm2	$C_{2v}$
		$\frac{2}{-}\frac{2}{-}\frac{2}{-}$	mmm	$D_{2h}$
		m m m		
Tetragonal	4	$\frac{4}{-}$	$\frac{4}{-}$	$C_4$
	$\frac{1}{m}$	$\overline{4}$	$\overline{4}$	$S_4$
	116	$\frac{4}{}$	$\frac{4}{}$	$C_{4h}$
		<u>m</u>	m	
	$\frac{4}{m}mm$	422	422	$D_4$
		$\frac{4mm}{\pi}$	4mm	$C_{4v}$
		$\overline{4}2m$	$\overline{4}2m$	$D_{2d}$
		$\frac{4}{2} \frac{2}{2}$	$\frac{4}{-}mm$	$D_{4h}$
		m m m	$\frac{m}{2}$	
Trigonal	$\overline{3}$	$\frac{3}{2}$	$\frac{3}{2}$	$C_3$
		3	3	$C_{3i} = S_6$
	<u>-</u>	32	32	$D_3$
	$\overline{3}m$	$\frac{3m}{2}$	$\frac{3m}{2}$	$C_{3v}$
		$\overline{3}m$	$\overline{3}m$	$D_{3d}$
Hexagonal	6	$\frac{6}{8}$	$\frac{6}{8}$	$C_6$
	$\overline{m}$	$rac{\overline{6}}{6}$	$rac{\overline{6}}{6}$	$C_{3h}$
	•••	_	_	$C_{6h}$
		m	$\frac{m}{coo}$	
	C	622	622	$D_6$
	$\frac{6}{-}mm$	$\frac{6mm}{\overline{G}}$	$\frac{6mm}{\overline{G}}$	$C_{6v}$
	m	6m2 62	$\overline{6}m2$	$D_{3h}$
			-mm	$D_{6h}$
		$\frac{mmm}{23}$	$\frac{m}{23}$	T
Cubic	$m\overline{3}$	$\frac{23}{-3}$		
		$\frac{\overline{-}}{m}\overline{3}$	$m\overline{3}$	$T_h$
		$\frac{m}{432}$	432	0
	$m\overline{3}m$	$\overline{4}3m$	$\overline{4}3m$	$T_d$
		$\frac{4}{3}$ $\frac{2}{3}$	$m\overline{3}m$	$O_h$
		$\overline{m}$ $\overline{m}$	1169116	$\mathcal{O}_h$