Table 1: The 32 Crystallographic Point Groups

Crystal	Laue Class	stallographic Point Groups  Hermann-Mauguin Schoenflies		
System		Full	Short	
Triclinic	<del></del>	1	1	$\overline{C_1}$
	$\overline{1}$	$\overline{1}$	$\overline{1}$	$C_i = S_2$
Monoclinic	0	2	2	$\frac{C_i = S_2}{C_2}$
	$\frac{2}{}$	m	m	$C_s = C_{1h}$
	m	2	$\underline{2}$	$C_{2h}$
		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	$\frac{4}{4}$	$\frac{4}{4}$	$C_4$
	$\overline{m}$	$rac{\overline{4}}{4}$	$\overline{4} \ 4$	$S_4$
	***			$C_{4h}$
		$\frac{m}{422}$	$\frac{m}{422}$	$D_4$
	4	4mm	4mm	$C_{4v}$
	-mm	$\frac{4mm}{42m}$	$\overline{4}2m$	$D_{2d}$
	m	42m	4	
		$\overline{m}\overline{m}\overline{m}$	$\frac{1}{m}mm$	$D_{4h}$
Trigonal	<del>-</del>	3	3	$C_3$
	$\overline{3}$	$\overline{3}$	$\overline{\overline{3}}$	
		32	32	$\frac{C_{3i}}{D_3}$
	$\overline{3}m$	3m	3m	$C_{3v}$
		$\overline{3}m$	$\overline{3}m$	$D_{3d}$
Hexagonal	6	6	6	$C_6$
	<u>6</u>	$\overline{6}$	$\overline{6}$	$C_{3h}$
	m	6	6	$C_{6h}$
		m	m	
		622	622	$D_6$
	$\frac{6}{-}mm$	$\frac{6mm}{\bar{z}}$	$\frac{6mm}{\bar{z}}$	$C_{6v}$
	$m^{\prime\prime\prime\prime\prime\prime}$	$\overline{6}m2$	$\overline{6}m2$	$D_{3h}$
		$\frac{6}{2} \frac{2}{2}$	$\frac{6}{-}mm$	$D_{6h}$
		$\frac{mmm}{23}$	$\frac{m}{2}$	T
Cubic	$m\overline{3}$		23	_
		$\frac{2}{m}\overline{3}$	$m\overline{3}$	$T_h$
		$\frac{m}{432}$	432	0
	$m\overline{3}m$	$\overline{4}3m$	$\overline{4}3m$	$T_d$
		$\frac{4}{3}\frac{2}{3}$	$m\overline{3}m$	$O_h$
		m1 $m$	1103110	<i>∨ n</i>



