Table 1: The 32 Crystallographic Point Groups

Crystal	Laue Class	stallographic Point Groups Hermann-Mauguin Schoenflies		
System		Full	Short	
Triclinic		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	-	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>