

6.3. Punktgruppen/Kristallklassen (Forts.)

6.3.2. Übersichtstabelle der 2- und 3-dimensionalen Punktgruppen

Tabelle der 2-dimensionalen Punktgruppen

Nr.	Hermann-Mauguin	Schönflies-	Koordinaten-System	Nr.	Hermann-Mauguin	Schönflies-	Koordinaten-System
	Symbol				Symbol		
1	1	C <sub>1</sub>	schiefwinklig (a ≠ b; γ beliebig)	7	311	C <sub>3</sub>	hexagonal a = b; γ = 120°)
2	2	C <sub>2</sub>		8	3m1	C <sub>3v</sub>	
3	1m1	C <sub>m</sub>	rechtwinklig (a ≠ b; γ = 90°)	9	611	C <sub>6</sub>	
4	2mm	C <sub>2v</sub>		10	6mm	C <sub>6v</sub>	
5	411	C <sub>4</sub>	quadratisch (a = b; γ = 90°)				
6	4mm	C <sub>4v</sub>					

Tabelle der 3-dimensionalen Punktgruppen/Kristallklassen

Nr.	Hermann-Mauguin		Schönflies-	Koordinaten-system	Nr.	Hermann-Mauguin		Schönflies-	Koordinaten-system
	Kurz-	Lang-				Kurz-	Lang-		
		symbol				symbol			
1	1	1	C <sub>1</sub>	triklin	16	3	3	C <sub>3</sub>	trigonal (hexagonale A.) (a = b ≠ c α = β = 90°; γ = 120°)
2	1	1	C <sub>i</sub>	(a ≠ b ≠ c; α ≠ β ≠ γ)	17	3	3	S <sub>6</sub>	
					18	3m1	3m1	C <sub>3v</sub>	
3	m	1m1	C <sub>s</sub>	monoklin	19	321	321	D <sub>3</sub>	
4	2	121	C <sub>2</sub>	(a ≠ b ≠ c, α = γ = 90°; β ≠ 90°)	20	3m1	3 $\frac{2}{m}$ 1	D <sub>3d</sub>	
5	$\frac{2}{m}$	1 $\frac{2}{m}$ 1	C <sub>2h</sub>						
6	mm2	mm2	C <sub>2v</sub>	orthorhombisch	21	6	6	C <sub>6</sub>	hexagonal (a = b ≠ c α = β = 90°; γ = 120°)
7	222	222	D <sub>2</sub>	(a ≠ b ≠ c, α = β = γ = 90°)	22	$\bar{6}$	$\bar{6}$	C <sub>3h</sub>	
8	mmm	$\frac{2}{m} \frac{2}{m} \frac{2}{m}$	D <sub>2h</sub>		23	$\frac{6}{m}$	$\frac{6}{m}$	C <sub>6h</sub>	
					24	$\bar{6}m2$	$\bar{6}m2$	D <sub>3h</sub>	
					25	6mm	6mm	C <sub>6v</sub>	
					26	622	622	D <sub>6</sub>	
					27	$\frac{6}{m}mm$	$\frac{6}{m} \frac{2}{m} \frac{2}{m}$	D <sub>6h</sub>	
9	4	4	C <sub>4</sub>	tetragonal	28	23	23	T	kubisch (a = b = c α = β = γ = 90°)
10	$\frac{4}{m}$	$\frac{4}{m}$	S <sub>4</sub>	(a = b ≠ c α = β = γ = 90°)	29	m $\bar{3}$	$\frac{2}{m} \bar{3}$	T <sub>h</sub>	
11	$\frac{4}{m}$	$\frac{4}{m}$	C <sub>4h</sub>		30	43m	43m	T <sub>d</sub>	
12	4mm	4mm	C <sub>4v</sub>		31	432	432	O	
13	$\bar{4}2m$	$\bar{4}2m$	D <sub>2d</sub>		32	m $\bar{3}m$	$\frac{4}{m} \bar{3} \frac{2}{m}$	O <sub>h</sub>	
14	422	422	D <sub>4</sub>						
15	$\frac{4}{m}mm$	$\frac{4}{m} \frac{2}{m} \frac{2}{m}$	D <sub>4h</sub>						

Punktgruppenbestimmung

