

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 <sup>2</sup> <sub>m</sub> 1	D <sub>3d</sub>	
5	2/m	1 <sup>2</sup> <sub>m</sub> 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	6	6	C <sub>3h</sub>	
8	mmm	2 <sup>2</sup> <sub>m</sub> 2 <sup>2</sup> <sub>m</sub>	D <sub>2h</sub>		23	6/m	6/m	C <sub>6h</sub>	
					24	6m2	6m2	D <sub>3h</sub>	
					25	6mm	6mm	C <sub>6v</sub>	
					26	622	622	D <sub>6</sub>	
					27	6/mmm	6 <sup>2</sup> <sub>m</sub> 2 <sup>2</sup> <sub>m</sub>	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	4	4	S <sub>4</sub>	(a = b ≠ c α = β = γ = 90°)	29	m3	2 <sup>3</sup> <sub>m</sub>	T <sub>h</sub>	
11	4/m	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	42m	42m	D <sub>2d</sub>		32	m3m	4 <sup>3</sup> <sub>m</sub> 2 <sup>2</sup> <sub>m</sub>	O <sub>h</sub>	
14	422	422	D <sub>4</sub>						
15	4/mmm	4 <sup>2</sup> <sub>m</sub> 2 <sup>2</sup> <sub>m</sub>	D <sub>4h</sub>						

Punktgruppenbestimmung

