

Space Group Frequencies in the Structural Databases (1997)

Table of Space Group Frequencies. The BIG 5. The five most frequent space groups in any given Laue Class. Results computed from the tabulation of the Cambridge Data Base) [Allen, F.H., Kennard, O. Chemical Design Automation News (1993) **8**, 31-37; Wilson A.J.C. (1988) **A44**, 715-724]. All results are reported in percentage of structures with the given space group in the data base or in the given Laue class.

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Number	space group	Total %	Class %
<i>Triclinic</i>			-1
2	P-1	19.0	95.3
1	P1	1.0	4.7
<i>Monoclinic</i>			2/m
14	P2 ₁ /c	35.0	67.6
15	C2/c	7.0	13.7
4	P2 ₁	5.6	10.8
9	Cc	1.0	1.9
5	C2	0.8	1.6
rest			4.4
<i>Orthorhombic</i>			mmm
19	P2 ₁ 2 ₁ 2 ₁	9.0	44.6
61	Pbca	3.8	18.7
62	Pnma	1.5	7.6

33	Pna2 ₁	1.5	7.5
60	Pbcn	0.89	3.6
rest			18.0
<i>Tetragonal</i>			4/m
88	I4 ₁ /a	0.32	29.9
82	I-4	0.16	14.8
86	P4 ₂ /n	0.13	12.6
76	P4 ₁	0.11	11.0
85	P4/n	0.10	9.4
rest			22.3
<i>Tetragonal</i>			4/mmm
92	P4 ₁ 2 ₁ 2	0.26	21.8
114	P-42 ₁ c	0.143	11.8
96	P4 ₃ 2 ₁ 2	0.127	10.5
122	I-42d	0.055	4.5
142	I4 ₁ /acd	0.042	3.5
rest			47.9
<i>Trigonal</i>			-3
148	R-3	0.48	52.6
146	R3	0.14	16.0
147	P-3	0.09	10.1
144	P3 ₁	0.08	8.8

145	P3 ₂	0.08	8.8
rest			3.7
<i>Trigonal</i>			-3m
161	R3c	0.136	19.9
152	P3 ₁ 21	0.11	16.3
167	R-3c	0.111	16.2
154	P3 ₂ 21	0.053	7.7
165	P-3c1	0.047	6.8
rest			33.1
<i>Hexagonal</i>			6/m
173	P6 ₃	0.075	37.0
169	P6 ₁	0.061	30.0
170	P6 ₅	0.043	21.3
171	P6 ₂	0.007	3.6
174	P-6	0.005	2.2
rest			5.9
<i>Hexagonal</i>			6/mmm
186	P6 ₃ mc	0.029	18.0
194	P6 ₃ /mmc	0.026	16.6
178	P6 ₁ 22	0.022	13.7
190	P-62c	0.015	9.4
192	P6/mcc	0.009	5.8

rest			36.5
<i>Cubic</i>			m3
205	Pa-3	0.113	49.1
198	P2 ₁ 3	0.062	27.2
197	I23	0.01	4.5
203	Fd-3	0.008	3.5
204	Im-3	0.008	3.2
rest			12.5
<i>Cubic</i>			m3m
225	Fm-3m	0.033	14.3
217	I-43m	0.028	12.3
229	Im-3m	0.021	9.0
220	I-43d	0.019	8.5
227	Fd-3m	0.019	8.5
rest			47.4