

Space Group Frequencies in the Structural Databases (1997)

Table of Space Group Frequencies. The **little 5**. The five least 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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#	Space Group	Total %	Class %
<i>Monoclinic</i>			<b>2/m</b>
6	Pm	0.003	0.005
10	P2/m	0.03	0.05
3	P2	0.03	0.05
8	Cm	0.06	0.11
7	Pc	0.4	0.70
<i>Orthorhombic</i>			<b>mmm</b>
35	Cmm2	0.001	0.005
28	Pma2	0.002	0.008
49	Pccm	0.002	0.01
22	F222	0.003	0.02
<b>47</b>	Pmmm	0.005	0.02
<i>Tetragonal</i>			<b>4/m</b>
75	P4	0.02	0.7

83	P4/m	0.01	0.9
77	P4 <sub>2</sub>	0.01	1.0
84	P4 <sub>2</sub> /m	0.02	1.7
79	I4	0.02	2.3
<i>Tetragonal</i>			<b>4/mmm</b>
99	P4mm	0.001	0.02
105	P4 <sub>2</sub> mc	0.001	0.02
100	P4bm	0.001	0.05
115	P-4m2	0.001	0.05
<i>Trigonal</i>			<b>-3</b>
143	P3	0.03	3.7
144	P3 <sub>1</sub>	0.08	8.8
145	P3 <sub>2</sub>	0.08	8.8
147	P-3	0.09	10.1
146	R3	0.14	16.0
<i>Trigonal</i>			<b>-3m</b>
149	P312	0.001	0.17
151	P3 <sub>1</sub> 12	0.001	0.17
162	P-31m	0.001	0.17
153	P3 <sub>2</sub> 12	0.002	0.25
156	P3m1	0.002	0.25

<i>Hexagonal</i>			<b>6/m</b>
176	P <sub>6</sub> <sub>3</sub> /m	0.001	0.5
175	P6/m	0.003	1.4
168	P6	0.004	2.0
172	P <sub>6</sub> <sub>4</sub>	0.004	2.0
174	P-6	0.005	2.2
<i>Hexagonal</i>			<b>6/mmm</b>
184	P6cc	0	0.0
187	P-6m2	0	0.0
177	P622	0.001	0.7
183	P6mm	0.002	0.8
193	P <sub>6</sub> <sub>3</sub> /mcm	0.002	0.8
<i>Cubic</i>			
<b>m3</b>			
199	I <sub>2</sub> <sub>3</sub>	0.002	0.7
195	P23	0.002	1.0
200	Pm-3	0.004	1.7
202	Fm-3	0.004	1.7
196	F <sub>2</sub> <sub>3</sub>	0.005	2.0
<i>Cubic</i>			
<b>m3m</b>			

208	P4 <sub>2</sub> 32	0	0.0
214	I4 <sub>1</sub> 32	0	0.0
207	P432	0.001	0.5
211	I432	0.001	0.5
226	Fm-3c	0.001	0.5