

CSD Space Group Statistics – Space Group Number Ordering

Space group frequency ranking for the 865,342 CSD structures for which the space group is fully defined. Statistics for enantiomorphous space groups are as reported in the CSD. 677,467 (78 %) of structures adopt centrosymmetric space groups, 187,875 (22 %) adopt non-centrosymmetric space groups, and 141,626 (16 %) structures adopt Sohncke space groups.

SG No.	Rank	Space Group	No. in CSD	% of CSD
1	10	P1	8306	1.0
2	2	P-1	213446	24.7
3	99	P2	152	<0.3
4	5	P21	44620	5.2
5	12	C2	7280	0.8
6	200	Pm	24	<0.3
7	18	Pc	3715	0.4
8	69	Cm	312	<0.3
9	9	Cc	9025	1.0
10	114	P2/m	115	<0.3
11	17	P21/m	4244	0.5
12	16	C2/m	4362	0.5
13	15	P2/c	5591	0.6
14	1	P21/c	298598	34.5
15	3	C2/c	72299	8.4
16	181	P222	35	<0.3
17	143	P2221	81	<0.3
18	19	P21212	3509	0.4
19	4	P212121	62099	7.2
20	24	C2221	1493	<0.3
21	157	C222	61	<0.3
22	190	F222	29	<0.3
23	84	I222	200	<0.3
24	155	I212121	63	<0.3
25	216	Pmm2	11	<0.3
26	103	Pmc21	138	<0.3
27	205	Pcc2	22	<0.3
28	215	Pma2	13	<0.3
29	13	Pca21	6420	0.7
30	117	Pnc2	108	<0.3
31	57	Pmn21	525	<0.3
32	96	Pba2	156	<0.3
33	7	Pna21	11967	1.4
34	73	Pnn2	265	<0.3
35	222	Cmm2	6	<0.3
36	27	Cmc21	1202	<0.3
37	117	Ccc2	108	<0.3
38	200	Amm2	24	<0.3
39	167	Abm2	52	<0.3

40	90	Ama2	178	<0.3
41	37	Aba2	921	<0.3
42	147	Fmm2	73	<0.3
43	22	Fdd2	2938	0.3
44	149	Imm2	72	<0.3
45	58	Iba2	503	<0.3
46	111	Ima2	121	<0.3
47	187	Pmmm	32	<0.3
48	159	Pnnn	60	<0.3
49	206	Pccm	18	<0.3
50	135	Pban	88	<0.3
51	163	Pmma	57	<0.3
52	36	Pnna	922	<0.3
53	108	Pmna	127	<0.3
54	63	Pcca	403	<0.3
55	79	Pbam	231	<0.3
56	21	Pccn	3047	0.4
57	40	Pbcm	843	<0.3
58	48	Pnnm	617	<0.3
59	74	Pmmn	260	<0.3
60	11	Pbcn	7300	0.8
61	6	Pbca	28764	3.3
62	8	Pnma	9234	1.1
63	39	Cmcm	844	<0.3
64	31	Cmca	1084	<0.3
65	109	Cmmm	124	<0.3
66	124	Cccm	101	<0.3
67	160	Cmma	58	<0.3
68	62	Ccca	413	<0.3
69	141	Fmmm	84	<0.3
70	35	Fddd	936	<0.3
71	132	Immm	92	<0.3
72	67	Ibam	357	<0.3
73	75	Ibca	248	<0.3
74	88	Imma	181	<0.3
75	171	P4	46	<0.3
76	41	P41	787	<0.3
77	136	P42	87	<0.3
78	45	P43	652	<0.3
79	78	I4	236	<0.3
80	82	I41	219	<0.3
81	85	P-4	194	<0.3
82	28	I-4	1176	<0.3
83	175	P4/m	39	<0.3
84	122	P42/m	104	<0.3
85	44	P4/n	753	<0.3
86	29	P42/n	1137	<0.3
87	53	I4/m	576	<0.3
88	20	I41/a	3138	0.4
89	220	P422	8	<0.3

90	151	P4212	70	<0.3
91	147	P4122	73	<0.3
92	23	P41212	1677	<0.3
93	218	P4222	9	<0.3
94	92	P42212	164	<0.3
95	152	P4322	68	<0.3
96	25	P43212	1470	<0.3
97	160	I422	58	<0.3
98	113	I4122	117	<0.3
99	226	P4mm	4	<0.3
100	226	P4bm	4	<0.3
101	222	P42cm	6	<0.3
102	197	P42nm	26	<0.3
103	190	P4cc	29	<0.3
104	126	P4nc	98	<0.3
105	230	P42mc	2	<0.3
106	133	P42bc	89	<0.3
107	213	I4mm	14	<0.3
108	184	I4cm	33	<0.3
109	173	I41md	44	<0.3
110	68	I41cd	346	<0.3
111	222	P-42m	6	<0.3
112	190	P-42c	29	<0.3
113	81	P-421m	227	<0.3
114	32	P-421c	1072	<0.3
115	226	P-4m2	4	<0.3
116	195	P-4c2	27	<0.3
117	156	P-4b2	62	<0.3
118	93	P-4n2	162	<0.3
119	193	I-4m2	28	<0.3
120	139	I-4c2	85	<0.3
121	93	I-42m	162	<0.3
122	51	I-42d	587	<0.3
123	102	P4/mmm	141	<0.3
124	144	P4/mcc	80	<0.3
125	203	P4/nbm	23	<0.3
126	86	P4/nnc	185	<0.3
127	154	P4/mbm	66	<0.3
128	126	P4/mnc	98	<0.3
129	88	P4/nmm	181	<0.3
130	64	P4/ncc	402	<0.3
131	145	P42/mmc	75	<0.3
132	208	P42/mcm	17	<0.3
133	178	P42/nbc	37	<0.3
134	168	P42/nnm	49	<0.3
135	129	P42/mbc	94	<0.3
136	100	P42/mnm	149	<0.3
137	125	P42/nmc	100	<0.3
138	116	P42/ncm	111	<0.3
139	91	I4/mmm	176	<0.3

140	136	I4/mcm	87	<0.3
141	95	I41/amd	159	<0.3
142	61	I41/acd	455	<0.3
143	83	P3	209	<0.3
144	46	P31	629	<0.3
145	49	P32	610	<0.3
146	30	R3	1087	<0.3
147	34	P-3	980	<0.3
148	14	R-3	5637	0.7
149	210	P312	16	<0.3
150	138	P321	86	<0.3
151	198	P3112	25	<0.3
152	43	P3121	765	<0.3
153	208	P3212	17	<0.3
154	52	P3221	586	<0.3
155	64	R32	402	<0.3
156	220	P3m1	8	<0.3
157	206	P31m	18	<0.3
158	139	P3c1	85	<0.3
159	70	P31c	297	<0.3
160	75	R3m	248	<0.3
161	38	R3c	855	<0.3
162	184	P-31m	33	<0.3
163	66	P-31c	371	<0.3
164	130	P-3m1	93	<0.3
165	54	P-3c1	564	<0.3
166	60	R-3m	473	<0.3
167	26	R-3c	1447	<0.3
168	200	P6	24	<0.3
169	55	P61	537	<0.3
170	59	P65	499	<0.3
171	157	P62	61	<0.3
172	170	P64	47	<0.3
173	50	P63	596	<0.3
174	203	P-6	23	<0.3
175	179	P6/m	36	<0.3
176	33	P63/m	1004	<0.3
177	218	P622	9	<0.3
178	77	P6122	246	<0.3
179	87	P6522	182	<0.3
180	166	P6222	54	<0.3
181	181	P6422	35	<0.3
182	107	P6322	129	<0.3
183	226	P6mm	4	<0.3
184	217	P6cc	10	<0.3
185	189	P63cm	30	<0.3
186	115	P63mc	112	<0.3
187	187	P-6m2	32	<0.3
188	212	P-6c2	15	<0.3
189	195	P-62m	27	<0.3

190	103	P-62c	138	<0.3
191	153	P6/mmm	67	<0.3
192	123	P6/mcc	102	<0.3
193	160	P63/mcm	58	<0.3
194	80	P63/mmc	228	<0.3
195	210	P23	16	<0.3
196	141	F23	84	<0.3
197	97	I23	154	<0.3
198	56	P213	528	<0.3
199	146	I213	74	<0.3
200	193	Pm-3	28	<0.3
201	175	Pn-3	39	<0.3
202	174	Fm-3	42	<0.3
203	128	Fd-3	96	<0.3
204	110	Im-3	123	<0.3
205	42	Pa-3	781	<0.3
206	117	Ia-3	108	<0.3
207	213	P432	14	<0.3
208	222	P4232	6	<0.3
209	181	F432	35	<0.3
210	171	F4132	46	<0.3
211	175	I432	39	<0.3
212	179	P4332	36	<0.3
213	168	P4132	49	<0.3
214	198	I4132	25	<0.3
215	117	P-43m	108	<0.3
216	165	F-43m	55	<0.3
217	71	I-43m	281	<0.3
218	106	P-43n	131	<0.3
219	133	F-43c	89	<0.3
220	72	I-43d	268	<0.3
221	97	Pm-3m	154	<0.3
222	117	Pn-3n	108	<0.3
223	149	Pm-3n	72	<0.3
224	184	Pn-3m	33	<0.3
225	47	Fm-3m	626	<0.3
226	164	Fm-3c	56	<0.3
227	105	Fd-3m	134	<0.3
228	111	Fd-3c	121	<0.3
229	101	Im-3m	148	<0.3
230	130	Ia-3d	93	<0.3