

CSD Space Group Statistics – Space Group Number Ordering

Space group frequency ranking for the 927,380 CSD structures for which the space group is fully defined. Statistics for enantiomorphous space groups are as reported in the CSD. 726,652 (78 %) of structures adopt centrosymmetric space groups, 200,728 (22 %) adopt non-centrosymmetric space groups, and 151,203 (16 %) structures adopt Sohncke space groups.

SG No.	Rank	Space Group	No. in CSD	% of CSD
1	10	P1	8905	1
2	2	P-1	229917	24.8
3	102	P2	159	<0.3
4	5	P21	47603	5.1
5	11	C2	7799	0.8
6	185	Pm	35	<0.3
7	18	Pc	4026	0.4
8	69	Cm	329	<0.3
9	9	Cc	9680	1
10	115	P2/m	128	<0.3
11	17	P21/m	4469	0.5
12	16	C2/m	4626	0.5
13	15	P2/c	6013	0.6
14	1	P21/c	319411	34.4
15	3	C2/c	77441	8.4
16	185	P222	35	<0.3
17	146	P2221	85	<0.3
18	19	P21212	3746	0.4
19	4	P212121	66030	7.1
20	24	C2221	1618	<0.3
21	160	C222	62	<0.3
22	197	F222	30	<0.3
23	85	I222	211	<0.3
24	156	I212121	69	<0.3
25	216	Pmm2	12	<0.3
26	110	Pmc21	141	<0.3
27	205	Pcc2	23	<0.3
28	215	Pma2	14	<0.3
29	13	Pca21	6901	0.7
30	121	Pnc2	115	<0.3
31	57	Pmn21	546	<0.3
32	100	Pba2	162	<0.3
33	7	Pna21	12778	1.4
34	74	Pnn2	272	<0.3
35	223	Cmm2	6	<0.3
36	27	Cmc21	1291	<0.3
37	122	Ccc2	114	<0.3
38	193	Amm2	31	<0.3
39	169	Abm2	54	<0.3

40	94	Ama2	186	<0.3
41	37	Aba2	990	<0.3
42	149	Fmm2	79	<0.3
43	22	Fdd2	3113	0.3
44	154	Imm2	72	<0.3
45	59	Iba2	535	<0.3
46	118	Ima2	123	<0.3
47	189	Pmmm	34	<0.3
48	160	Pnnn	62	<0.3
49	206	Pccm	20	<0.3
50	136	Pban	98	<0.3
51	165	Pmma	59	<0.3
52	36	Pnna	991	<0.3
53	109	Pmna	142	<0.3
54	64	Pcca	441	<0.3
55	79	Pbam	252	<0.3
56	21	Pccn	3254	0.4
57	40	Pbcm	904	<0.3
58	50	Pnnm	651	<0.3
59	75	Pmnm	270	<0.3
60	12	Pbcn	7774	0.8
61	6	Pbca	30586	3.3
62	8	Pnma	9775	1.1
63	39	Cmcm	907	<0.3
64	31	Cmca	1155	<0.3
65	111	Cmmm	134	<0.3
66	124	Cccm	110	<0.3
67	158	Cmma	64	<0.3
68	63	Ccca	457	<0.3
69	139	Fmmm	94	<0.3
70	35	Fddd	1014	<0.3
71	130	Immm	104	<0.3
72	67	Ibam	380	<0.3
73	77	Ibca	265	<0.3
74	82	Imma	232	<0.3
75	170	P4	53	<0.3
76	42	P41	834	<0.3
77	138	P42	95	<0.3
78	45	P43	705	<0.3
79	80	I4	251	<0.3
80	83	I41	231	<0.3
81	87	P-4	203	<0.3
82	28	I-4	1274	<0.3
83	181	P4/m	41	<0.3
84	127	P42/m	106	<0.3
85	44	P4/n	807	<0.3
86	29	P42/n	1195	<0.3
87	53	I4/m	630	<0.3
88	20	I41/a	3325	0.4
89	220	P422	8	<0.3

90	150	P4212	77	<0.3
91	150	P4122	77	<0.3
92	23	P41212	1771	<0.3
93	219	P4222	9	<0.3
94	95	P42212	172	<0.3
95	152	P4322	73	<0.3
96	25	P43212	1603	<0.3
97	152	I422	73	<0.3
98	106	I4122	146	<0.3
99	226	P4mm	4	<0.3
100	226	P4bm	4	<0.3
101	222	P42cm	7	<0.3
102	200	P42nm	28	<0.3
103	193	P4cc	31	<0.3
104	128	P4nc	105	<0.3
105	230	P42mc	2	<0.3
106	141	P42bc	92	<0.3
107	214	I4mm	15	<0.3
108	185	I4cm	35	<0.3
109	173	I41md	48	<0.3
110	68	I41cd	362	<0.3
111	223	P-42m	6	<0.3
112	192	P-42c	32	<0.3
113	81	P-421m	243	<0.3
114	32	P-421c	1139	<0.3
115	226	P-4m2	4	<0.3
116	201	P-4c2	27	<0.3
117	159	P-4b2	63	<0.3
118	96	P-4n2	169	<0.3
119	197	I-4m2	30	<0.3
120	145	I-4c2	89	<0.3
121	91	I-42m	199	<0.3
122	54	I-42d	609	<0.3
123	104	P4/mmm	155	<0.3
124	133	P4/mcc	102	<0.3
125	202	P4/nbm	26	<0.3
126	89	P4/nnc	201	<0.3
127	155	P4/mbm	70	<0.3
128	107	P4/mnc	143	<0.3
129	87	P4/nmm	203	<0.3
130	62	P4/ncc	459	<0.3
131	123	P42/mmc	112	<0.3
132	206	P42/mcm	20	<0.3
133	181	P42/nbc	41	<0.3
134	167	P42/nnm	57	<0.3
135	137	P42/mbc	97	<0.3
136	98	P42/mnm	164	<0.3
137	134	P42/nmc	101	<0.3
138	119	P42/ncm	122	<0.3
139	90	I4/mmm	200	<0.3

140	126	I4/mcm	107	<0.3
141	93	I41/amd	193	<0.3
142	61	I41/acd	499	<0.3
143	84	P3	224	<0.3
144	48	P31	675	<0.3
145	49	P32	656	<0.3
146	30	R3	1178	<0.3
147	33	P-3	1067	<0.3
148	14	R-3	6113	0.7
149	210	P312	18	<0.3
150	142	P321	91	<0.3
151	203	P3112	25	<0.3
152	43	P3121	832	<0.3
153	208	P3212	19	<0.3
154	51	P3221	642	<0.3
155	65	R32	426	<0.3
156	220	P3m1	8	<0.3
157	208	P31m	19	<0.3
158	143	P3c1	90	<0.3
159	70	P31c	328	<0.3
160	78	R3m	263	<0.3
161	38	R3c	936	<0.3
162	179	P-31m	42	<0.3
163	66	P-31c	414	<0.3
164	131	P-3m1	103	<0.3
165	46	P-3c1	704	<0.3
166	60	R-3m	519	<0.3
167	26	R-3c	1574	<0.3
168	203	P6	25	<0.3
169	55	P61	571	<0.3
170	58	P65	538	<0.3
171	157	P62	65	<0.3
172	173	P64	48	<0.3
173	52	P63	640	<0.3
174	189	P-6	34	<0.3
175	177	P6/m	43	<0.3
176	34	P63/m	1063	<0.3
177	217	P622	11	<0.3
178	76	P6122	268	<0.3
179	86	P6522	209	<0.3
180	164	P6222	60	<0.3
181	176	P6422	44	<0.3
182	105	P6322	150	<0.3
183	226	P6mm	4	<0.3
184	217	P6cc	11	<0.3
185	193	P63cm	31	<0.3
186	117	P63mc	124	<0.3
187	185	P-6m2	35	<0.3
188	212	P-6c2	17	<0.3
189	183	P-62m	38	<0.3

190	103	P-62c	156	<0.3
191	148	P6/mmm	80	<0.3
192	128	P6/mcc	105	<0.3
193	160	P63/mcm	62	<0.3
194	72	P63/mmc	291	<0.3
195	210	P23	18	<0.3
196	143	F23	90	<0.3
197	97	I23	168	<0.3
198	56	P213	557	<0.3
199	114	I213	129	<0.3
200	192	Pm-3	32	<0.3
201	179	Pn-3	42	<0.3
202	175	Fm-3	46	<0.3
203	131	Fd-3	103	<0.3
204	112	Im-3	133	<0.3
205	41	Pa-3	836	<0.3
206	115	Ia-3	128	<0.3
207	213	P432	16	<0.3
208	223	P4232	6	<0.3
209	177	F432	43	<0.3
210	172	F4132	50	<0.3
211	160	I432	62	<0.3
212	184	P4332	37	<0.3
213	171	P4132	52	<0.3
214	197	I4132	30	<0.3
215	125	P-43m	109	<0.3
216	168	F-43m	56	<0.3
217	71	I-43m	296	<0.3
218	107	P-43n	143	<0.3
219	139	F-43c	94	<0.3
220	73	I-43d	285	<0.3
221	92	Pm-3m	198	<0.3
222	120	Pn-3n	121	<0.3
223	147	Pm-3n	81	<0.3
224	189	Pn-3m	34	<0.3
225	47	Fm-3m	691	<0.3
226	165	Fm-3c	59	<0.3
227	100	Fd-3m	162	<0.3
228	112	Fd-3c	133	<0.3
229	98	Im-3m	164	<0.3
230	135	Ia-3d	99	<0.3