Cambridge Structural Database
1 January 2023

CSD Space Group Statistics – Space Group Number Ordering

Space group number ranking for the 1,231,575 CSD structures for which the space group is fully defined. Statistics for enantiomorphous space groups are as reported in the CSD. 965,978 (78 %) of structures adopt centrosymmetric space groups, 265,597 (22 %) adopt non-centrosymmetric space groups, and 199,748 (16 %) structures adopt Sohncke space groups.

SG No.	*Rank*	*Space Group*	*No. in CSD*	*% of CSD*
1	10	P1	12,197	1.0
2	2	P-1	309,600	25.1
3	106	P2	219	<0.3
4	5	P21	63,321	5.1
5	11	C2	10,461	0.8
6	194	Pm	48	<0.3
7	18	Pc	5,564	0.5
8	72	Cm	434	<0.3
9	8	Cc	12,791	1.0
10	113	P2/m	186	<0.3
11	17	P21/m	5,686	0.5
12	16	C2/m	6,265	0.5
13	15	P2/c	8,019	0.7
14	1	P21/c	420,364	34.1
15	3	C2/c	101,754	8.3
16	198	P222	41	<0.3
17	150	P2221	112	<0.3
18	19	P21212	4,943	0.4
19	4	P212121	85,542	6.9
20	25	C2221	2,127	<0.3
21	161	C222	92	<0.3
22	195	F222	46	<0.3
23	88	I222	293	<0.3
24	167	I212121	84	<0.3
25	220	Pmm2	12	<0.3
26	109	Pmc21	202	<0.3
27	=200	Pcc2	39	<0.3
28	214	Pma2	21	<0.3
29	14	Pca21	9,339	0.8
30	117	Pnc2	177	<0.3
31	60	Pmn21	707	<0.3
32	107	Pba2	209	<0.3
33	7	Pna21	16,805	1.4
34	79	Pnn2	355	<0.3
35	219	Cmm2	14	<0.3
36	28	Cmc21	1,663	<0.3
37	133	Ccc2	148	<0.3
38	182	Amm2	61	<0.3

39	=172	Abm2	73	<0.3
40	100	Ama2	235	<0.3
41	37	Aba2	1,282	<0.3
42	155	Fmm2	97	<0.3
43	22	Fdd2	4,078	0.3
44	162	Imm2	91	<0.3
45	59	Iba2	712	<0.3
46	=118	Ima2	175	<0.3
47	193	Pmmm	49	<0.3
48	157	Pnnn	94	<0.3
49	213	Pccm	23	<0.3
50	=137	Pban	126	<0.3
51	=164	Pmma	88	<0.3
52	36	Pnna	1,314	<0.3
53	116	Pmna	182	<0.3
54	63	Pcca	578	<0.3
55	76	Pbam	364	<0.3
56	21	Pccn	4,338	0.4
57	39	Pbcm	1,184	<0.3
58	53	Pnnm	857	<0.3
59	=81	Pmmn	346	<0.3
60	12	Pbcn	10,134	0.8
61	6	Pbca	39,615	3.2
62	9	Pnma	12,343	1.0
63	40	Cmcm	1,180	<0.3
64	31	Cmca	1,506	<0.3
65	92	Cmmm	271	<0.3
66	127	Cccm	161	<0.3
67	156	Cmma	95	<0.3
68	66	Ccca	568	<0.3
69	125	Fmmm	169	<0.3
70	34	Fddd	1,376	<0.3
71	115	Immm	183	<0.3
72	68	Ibam	512	<0.3
73	=81	Ibca	346	<0.3
74	80	Imma	352	<0.3
75	=169	P4	74	<0.3
76	44	P41	1,097	<0.3
77	136	P42	132	<0.3
78	46	P43	968	<0.3
79	84	I4	341	<0.3
80	=86	I41	298	<0.3
81	91	P-4	273	<0.3
82	29	I-4	1,655	<0.3
83	183	P4/m	60	<0.3
84	=137	P42/m	126	<0.3
85	45	P4/n	1,042	<0.3
86	30	P42/n	1,575	<0.3
87	47	I4/m	916	<0.3
88	20	I41/a	4,376	0.4

89	=216	P422	18	<0.3
90	=145	P4212	120	<0.3
91	151	P4122	111	<0.3
92	23	P41212	2,314	<0.3
93	=221	P4222	9	<0.3
94	=94	P42212	259	<0.3
95	152	P4322	110	<0.3
96	26	P43212	2,090	<0.3
97	143	I422	123	<0.3
98	97	I4122	256	<0.3
99	=221	P4mm	9	<0.3
100	=221	P4bm	9	<0.3
101	=221	P42cm	9	<0.3
102	206	P42nm	35	<0.3
103	199	P4cc	40	<0.3
104	134	P4nc	147	<0.3
105	230	P42mc	3	<0.3
106	=139	P42bc	124	<0.3
107	209	I4mm	29	<0.3
108	=185	I4cm	55	<0.3
109	=180	I41md	62	<0.3
110	70	I41cd	486	<0.3
111	=221	P-42m	9	<0.3
112	=204	P-42c	37	<0.3
113	=77	P-421m	360	<0.3
114	32	P-421c	1,413	<0.3
115	228	P-4m2	7	<0.3
116	=189	P-4c2	52	<0.3
117	154	P-4b2	102	<0.3
118	108	P-4n2	208	<0.3
119	=196	I-4m2	45	<0.3
120	=139	I-4c2	124	<0.3
121	103	I-42m	231	<0.3
122	57	I-42d	770	<0.3
123	101	P4/mmm	234	<0.3
124	149	P4/mcc	117	<0.3
125	174	P4/nbm	72	<0.3
126	=86	P4/nnc	298	<0.3
127	=158	P4/mbm	93	<0.3
128	98	P4/mnc	244	<0.3
129	93	P4/nmm	265	<0.3
130	62	P4/ncc	615	<0.3
131	=123	P42/mmc	170	<0.3
132	211	P42/mcm	27	<0.3
133	=187	P42/nbc	54	<0.3
134	176	P42/nnm	70	<0.3
135	=139	P42/mbc	124	<0.3
136	99	P42/mnm	240	<0.3
137	129	P42/nmc	154	<0.3
138	=123	P42/ncm	170	<0.3

139	=77	I4/mmm	360	<0.3
140	126	I4/mcm	167	<0.3
141	85	I41/amd	317	<0.3
142	61	I41/acd	653	<0.3
143	89	P3	289	<0.3
144	=50	P31	887	<0.3
145	49	P32	890	<0.3
146	27	R3	1,664	<0.3
147	33	P-3	1,389	<0.3
148	13	R-3	10,002	0.8
149	=216	P312	18	<0.3
150	=145	P321	120	<0.3
151	207	P3112	31	<0.3
152	43	P3121	1,102	<0.3
153	212	P3212	26	<0.3
154	=50	P3221	887	<0.3
155	64	R32	576	<0.3
156	=226	P3m1	8	<0.3
157	210	P31m	28	<0.3
158	148	P3c1	119	<0.3
159	71	P31c	436	<0.3
160	74	R3m	368	<0.3
161	38	R3c	1,213	<0.3
162	=172	P-31m	73	<0.3
163	65	P-31c	570	<0.3
164	120	P-3m1	173	<0.3
165	52	P-3c1	871	<0.3
166	54	R-3m	823	<0.3
167	24	R-3c	2,228	<0.3
168	=204	P6	37	<0.3
169	55	P61	809	<0.3
170	56	P65	780	<0.3
171	=158	P62	93	<0.3
172	177	P64	69	<0.3
173	48	P63	895	<0.3
174	=196	P-6	45	<0.3
175	=180	P6/m	62	<0.3
176	35	P63/m	1,337	<0.3
177	=185	P622	55	<0.3
178	83	P6122	344	<0.3
179	90	P6522	285	<0.3
180	=158	P6222	93	<0.3
181	184	P6422	58	<0.3
182	=104	P6322	222	<0.3
183	229	P6mm	4	<0.3
184	218	P6cc	16	<0.3
185	=200	P63cm	39	<0.3
186	=118	P63mc	175	<0.3
187	192	P-6m2	51	<0.3
188	215	P-6c2	19	<0.3

189	=187	P-62m	54	<0.3
190	102	P-62c	232	<0.3
191	=121	P6/mmm	172	<0.3
192	131	P6/mcc	152	<0.3
193	163	P63/mcm	89	<0.3
194	67	P63/mmc	538	<0.3
195	208	P23	30	<0.3
196	135	F23	142	<0.3
197	=104	I23	222	<0.3
198	58	P213	724	<0.3
199	128	I213	157	<0.3
200	=189	Pm-3	52	<0.3
201	178	Pn-3	67	<0.3
202	=169	Fm-3	74	<0.3
203	130	Fd-3	153	<0.3
204	111	Im-3	192	<0.3
205	41	Pa-3	1,135	<0.3
206	=121	Ia-3	172	<0.3
207	=189	P432	52	<0.3
208	=226	P4232	8	<0.3
209	166	F432	86	<0.3
210	=169	F4132	74	<0.3
211	=164	I432	88	<0.3
212	175	P4332	71	<0.3
213	168	P4132	75	<0.3
214	203	I4132	38	<0.3
215	=139	P-43m	124	<0.3
216	179	F-43m	64	<0.3
217	69	I-43m	494	<0.3
218	110	P-43n	193	<0.3
219	144	F-43c	122	<0.3
220	75	I-43d	365	<0.3
221	73	Pm-3m	399	<0.3
222	112	Pn-3n	189	<0.3
223	=145	Pm-3n	120	<0.3
224	=200	Pn-3m	39	<0.3
225	42	Fm-3m	1,124	<0.3
226	153	Fm-3c	106	<0.3
227	96	Fd-3m	258	<0.3
228	114	Fd-3c	185	<0.3
229	=94	Im-3m	259	<0.3
230	132	Ia-3d	150	<0.3