

CSD Space Group Statistics – Space Group Number Ordering

Space group frequency ranking for the 682,999 CSD structures for which the space group is fully defined. Statistics for enantiomorphous space groups are as reported in the CSD. 532,485 (78.0%) of structures adopt centrosymmetric space groups, 150514 (22.0%) adopt non-centrosymmetric space groups, and 113908 (15.7%) structures adopt Sohncke space groups.

SG No.	Rank	Space Group	No. in CSD	% of CSD
1	10.	P1	6457	0.9
2	2.	P-1	164629	24.1
3	98.	P2	120	<0.3
4	5.	P21	35749	5.2
5	12.	C2	5799	0.8
6	195.	Pm	20	<0.3
7	18.	Pc	2872	0.4
8	67.	Cm	255	<0.3
9	9.	Cc	7214	1.1
10	108.	P2/m	95	<0.3
11	17.	P21/m	3518	0.5
12	16.	C2/m	3546	0.5
13	14.	P2/c	4359	0.6
14	1.	P21/c	237368	34.8
15	3.	C2/c	56563	8.3
16	174.	P222	32	<0.3
17	133.	P2221	69	<0.3
18	19.	P21212	2837	0.4
19	4.	P212121	50579	7.4
20	24.	C2221	1223	<0.3
21	150.	C222	51	<0.3
22	189.	F222	21	<0.3
23	82.	I222	164	<0.3
24	148.	I212121	52	<0.3
25	213.	Pmm2	11	<0.3
26	99.	Pmc21	120	<0.3
27	203.	Pcc2	14	<0.3
28	210.	Pma2	12	<0.3
29	13.	Pca21	5022	0.7
30	110.	Pnc2	94	<0.3
31	53.	Pmn21	441	<0.3
32	92.	Pba2	128	<0.3
33	7.	Pna21	9460	1.4
34	74.	Pnn2	214	<0.3
35	219.	Cmm2	6	<0.3
36	27.	Cmc21	984	<0.3
37	111.	Ccc2	92	<0.3
38	198.	Amm2	19	<0.3
39	162.	Abm2	43	<0.3
40	94.	Ama2	123	<0.3
41	35.	Aba2	741	<0.3
42	135.	Fmm2	66	<0.3
43	22.	Fdd2	2323	0.3
44	134.	Imm2	68	<0.3
45	56.	Iba2	401	<0.3

46	112.	Ima2	92	<0.3
47	180.	Pmmm	24	<0.3
48	146.	Pnnn	53	<0.3
49	201.	Pccm	17	<0.3
50	143.	Pban	58	<0.3
51	156.	Pmma	46	<0.3
52	37.	Pnna	701	<0.3
53	106.	Pmna	97	<0.3
54	61.	Pcca	319	<0.3
55	75.	Pbam	196	<0.3
56	21.	Pccn	2412	0.4
57	38.	Pbcm	692	<0.3
58	47.	Pnnm	509	<0.3
59	72.	Pmmn	221	<0.3
60	11.	Pbcn	5881	0.9
61	6.	Pbca	23214	3.4
62	8.	Pnma	7614	1.1
63	40.	Cmcm	681	<0.3
64	32.	Cmca	852	<0.3
65	109.	Cmmm	95	<0.3
66	128.	Cccm	73	<0.3
67	157.	Cmma	46	<0.3
68	62.	Ccca	319	<0.3
69	149.	Fmmm	52	<0.3
70	36.	Fddd	705	<0.3
71	123.	Immm	78	<0.3
72	66.	lbam	277	<0.3
73	77.	lbca	195	<0.3
74	96.	Imma	121	<0.3
75	165.	P4	39	<0.3
76	41.	P41	649	<0.3
77	124.	P42	77	<0.3
78	45.	P43	536	<0.3
79	78.	I4	189	<0.3
80	81.	I41	180	<0.3
81	85.	P-4	159	<0.3
82	28.	I-4	920	<0.3
83	169.	P4/m	37	<0.3
84	120.	P42/m	81	<0.3
85	42.	P4/n	618	<0.3
86	29.	P42/n	904	<0.3
87	52.	I4/m	444	<0.3
88	20.	I41/a	2452	0.4
89	217.	P422	7	<0.3
90	153.	P4212	48	<0.3
91	144.	P4122	56	<0.3
92	23.	P41212	1393	<0.3
93	220.	P4222	6	<0.3
94	93.	P42212	124	<0.3
95	155.	P4322	47	<0.3
96	25.	P43212	1175	<0.3
97	158.	I422	45	<0.3
98	131.	I4122	70	<0.3
99	230.	P4mm	1	<0.3
100	227.	P4bm	3	<0.3
101	221.	P42cm	6	<0.3
102	196.	P42nm	20	<0.3
103	206.	P4cc	13	<0.3

104	118.	P4nc	83	<0.3
105	229.	P42mc	2	<0.3
106	129.	P42bc	72	<0.3
107	207.	I4mm	13	<0.3
108	190.	I4cm	21	<0.3
109	172.	I41md	33	<0.3
110	69.	I41cd	252	<0.3
111	222.	P-42m	6	<0.3
112	183.	P-42c	22	<0.3
113	76.	P-421m	196	<0.3
114	30.	P-421c	872	<0.3
115	228.	P-4m2	3	<0.3
116	191.	P-4c2	21	<0.3
117	151.	P-4b2	50	<0.3
118	89.	P-4n2	134	<0.3
119	178.	I-4m2	25	<0.3
120	130.	I-4c2	71	<0.3
121	90.	I-42m	132	<0.3
122	51.	I-42d	446	<0.3
123	101.	P4/mmm	110	<0.3
124	141.	P4/mcc	60	<0.3
125	199.	P4/nbm	19	<0.3
126	86.	P4/nnc	146	<0.3
127	142.	P4/mbm	60	<0.3
128	137.	P4/mnc	64	<0.3
129	83.	P4/nmm	162	<0.3
130	63.	P4/ncc	315	<0.3
131	181.	P42/mmc	23	<0.3
132	208.	P42/mcm	13	<0.3
133	176.	P42/nbc	29	<0.3
134	168.	P42/nnm	38	<0.3
135	127.	P42/mbc	74	<0.3
136	97.	P42/mnm	121	<0.3
137	115.	P42/nmc	88	<0.3
138	121.	P42/ncm	79	<0.3
139	95.	I4/mmm	122	<0.3
140	147.	I4/mcm	53	<0.3
141	91.	I41/amd	131	<0.3
142	60.	I41/acd	346	<0.3
143	84.	P3	161	<0.3
144	46.	P31	512	<0.3
145	48.	P32	486	<0.3
146	31.	R3	863	<0.3
147	34.	P-3	790	<0.3
148	15.	R-3	4308	0.6
149	215.	P312	9	<0.3
150	136.	P321	65	<0.3
151	200.	P3112	19	<0.3
152	43.	P3121	610	<0.3
153	204.	P3212	14	<0.3
154	54.	P3221	440	<0.3
155	64.	R32	283	<0.3
156	218.	P3m1	7	<0.3
157	211.	P31m	12	<0.3
158	139.	P3c1	63	<0.3
159	71.	P31c	226	<0.3
160	79.	R3m	187	<0.3
161	39.	R3c	682	<0.3

162	205.	P-31m	14	<0.3
163	68.	P-31c	253	<0.3
164	140.	P-3m1	62	<0.3
165	49.	P-3c1	465	<0.3
166	65.	R-3m	278	<0.3
167	26.	R-3c	1033	<0.3
168	192.	P6	21	<0.3
169	55.	P61	436	<0.3
170	59.	P65	359	<0.3
171	145.	P62	55	<0.3
172	164.	P64	40	<0.3
173	50.	P63	459	<0.3
174	184.	P-6	22	<0.3
175	185.	P6/m	22	<0.3
176	33.	P63/m	827	<0.3
177	223.	P622	6	<0.3
178	80.	P6122	186	<0.3
179	87.	P6522	144	<0.3
180	159.	P6222	45	<0.3
181	175.	P6422	31	<0.3
182	116.	P6322	86	<0.3
183	226.	P6mm	4	<0.3
184	216.	P6cc	9	<0.3
185	193.	P63cm	21	<0.3
186	107.	P63mc	97	<0.3
187	202.	P-6m2	15	<0.3
188	214.	P-6c2	10	<0.3
189	197.	P-62m	20	<0.3
190	105.	P-62c	98	<0.3
191	166.	P6/mmm	39	<0.3
192	122.	P6/mcc	79	<0.3
193	173.	P63/mcm	33	<0.3
194	88.	P63/mmc	140	<0.3
195	209.	P23	13	<0.3
196	152.	F23	50	<0.3
197	100.	I23	118	<0.3
198	57.	P213	400	<0.3
199	167.	I213	39	<0.3
200	212.	Pm3	12	<0.3
201	186.	Pn3	22	<0.3
202	171.	Fm3	35	<0.3
203	119.	Fd3	83	<0.3
204	132.	Im3	70	<0.3
205	44.	Pa3	599	<0.3
206	125.	Ia3	77	<0.3
207	224.	P432	5	<0.3
208	225.	P4232	5	<0.3
209	182.	F432	23	<0.3
210	179.	F4132	25	<0.3
211	194.	I432	21	<0.3
212	177.	P4332	27	<0.3
213	170.	P4132	36	<0.3
214	187.	I4132	22	<0.3
215	154.	P-43m	48	<0.3
216	160.	F-43m	45	<0.3
217	70.	I-43m	233	<0.3
218	104.	P-43n	105	<0.3
219	126.	F-43c	75	<0.3

220	73.	I-43d	216	<0.3
221	117.	Pm3m	85	<0.3
222	114.	Pn3n	91	<0.3
223	163.	Pm3n	41	<0.3
224	188.	Pn3m	22	<0.3
225	58.	Fm3m	372	<0.3
226	161.	Fm3c	44	<0.3
227	102.	Fd3m	110	<0.3
228	113.	Fd3c	92	<0.3
229	103.	Im3m	108	<0.3
230	138.	Ia3d	64	<0.3