Cambridge Structural Database
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CSD Organic Space Group Statistics – Space Group Number Ordering

Space group number ranking for the 653,326 organic CSD structures for which the space group is fully defined. Statistics for enantiomorphous space groups are as reported in the CSD. 460,797 (71 %) structures adopt centrosymmetric space groups, 192,529 (29 %) adopt non-centrosymmetric space groups, and 157,933 (24 %) structures adopt Sohncke space groups.

SG No.	*Rank*	*Space Group*	*No. organics in CSD*	*% of organics in CSD*
1	8	P1	9,160	1.4
2	2	P-1	143,374	21.9
3	68	P2	133	<0.3
4	4	P21	54,347	8.3
5	9	C2	7,821	1.2
6	=184	Pm	12	<0.3
7	14	Pc	3,427	0.5
8	=55	Cm	184	<0.3
9	10	Cc	6,630	1.0
10	121	P2/m	37	<0.3
11	18	P21/m	2,248	0.3
12	21	C2/m	1,653	<0.3
13	17	P2/c	2,820	0.4
14	1	P21/c	223,278	34.2
15	5	C2/c	41,165	6.3
16	=163	P222	19	<0.3
17	=108	P2221	47	<0.3
18	15	P21212	3,252	0.5
19	3	P212121	71,945	11.0
20	24	C2221	1,045	<0.3
21	=139	C222	27	<0.3
22	=178	F222	14	<0.3
23	=84	I222	89	<0.3
24	=174	I212121	15	<0.3
25	=212	Pmm2	4	<0.3
26	=84	Pmc21	89	<0.3
27	=172	Pcc2	16	<0.3
28	=201	Pma2	7	<0.3
29	11	Pca21	6,202	0.9
30	101	Pnc2	55	<0.3
31	=47	Pmn21	327	<0.3
32	=87	Pba2	80	<0.3
33	7	Pna21	10,107	1.5
34	73	Pnn2	117	<0.3
35	=206	Cmm2	6	<0.3
36	27	Cmc21	722	<0.3
37	=95	Ccc2	63	<0.3
38	=174	Amm2	15	<0.3
39	=136	Abm2	28	<0.3
40	80	Ama2	96	<0.3
41	33	Aba2	606	<0.3
42	=122	Fmm2	36	<0.3

43	19	Fdd2	2,030	0.3
44	=160	Imm2	20	<0.3
45	45	Iba2	373	<0.3
46	106	Ima2	50	<0.3
47	=195	Pmmm	8	<0.3
48	=167	Pnnn	18	<0.3
49	=220	Pccm	2	<0.3
50	=136	Pban	28	<0.3
51	=160	Pmma	20	<0.3
52	52	Pnna	294	<0.3
53	102	Pmna	53	<0.3
54	58	Pcca	170	<0.3
55	79	Pbam	101	<0.3
56	20	Pccn	1,944	<0.3
57	41	Pbcm	458	<0.3
58	57	Pnnm	183	<0.3
59	74	Pmmn	114	<0.3
60	13	Pbcn	4,440	0.7
61	6	Pbca	22,827	3.5
62	12	Pnma	4,762	0.7
63	49	Cmcm	313	<0.3
64	35	Cmca	600	<0.3
65	=160	Cmmm	20	<0.3
66	=157	Cccm	21	<0.3
67	124	Cmma	34	<0.3
68	63	Ccca	146	<0.3
69	=163	Fmmm	19	<0.3
70	51	Fddd	298	<0.3
71	=145	Immm	24	<0.3
72	69	Ibam	129	<0.3
73	81	Ibca	95	<0.3
74	=151	Imma	23	<0.3
75	144	P4	25	<0.3
76	29	P41	708	<0.3
77	=92	P42	69	<0.3
78	31	P43	676	<0.3
79	59	I4	167	<0.3
80	=64	I41	143	<0.3
81	=76	P-4	110	<0.3
82	36	I-4	571	<0.3
83	=201	P4/m	7	<0.3
84	=116	P42/m	42	<0.3
85	=47	P4/n	327	<0.3
86	34	P42/n	602	<0.3
87	70	I4/m	127	<0.3
88	22	I41/a	1,643	<0.3
89	=212	P422	4	<0.3
90	=114	P4212	44	<0.3
91	=145	P4122	24	<0.3
92	23	P41212	1,260	<0.3
93	=220	P4222	2	<0.3
94	91	P42212	72	<0.3
95	=169	P4322	17	<0.3
96	25	P43212	1,015	<0.3
97	=182	I422	13	<0.3
98	=169	I4122	17	<0.3

99	=216	P4mm	3	<0.3
100	=209	P4bm	5	<0.3
101	=216	P42cm	3	<0.3
102	=201	P42nm	7	<0.3
103	=182	P4cc	13	<0.3
104	=163	P4nc	19	<0.3
105	=220	P42mc	2	<0.3
106	98	P42bc	57	<0.3
107	=195	I4mm	8	<0.3
108	=195	I4cm	8	<0.3
109	=174	I41md	15	<0.3
110	60	I41cd	164	<0.3
112	=174	P-42c	15	<0.3
113	54	P-421m	192	<0.3
114	38	P-421c	526	<0.3
115	=220	P-4m2	2	<0.3
116	=184	P-4c2	12	<0.3
117	143	P-4b2	26	<0.3
118	=103	P-4n2	51	<0.3
119	227	I-4m2	1	<0.3
120	=131	I-4c2	29	<0.3
121	=116	I-42m	42	<0.3
122	=55	I-42d	184	<0.3
123	=153	P4/mmm	22	<0.3
124	=131	P4/mcc	29	<0.3
125	=220	P4/nbm	2	<0.3
126	94	P4/nnc	64	<0.3
127	=209	P4/mbm	5	<0.3
128	118	P4/mnc	41	<0.3
129	67	P4/nmm	135	<0.3
130	=87	P4/ncc	80	<0.3
131	=212	P42/mmc	4	<0.3
133	=145	P42/nbc	24	<0.3
134	=209	P42/nnm	5	<0.3
135	=131	P42/mbc	29	<0.3
136	107	P42/mnm	49	<0.3
137	=95	P42/nmc	63	<0.3
138	=128	P42/ncm	31	<0.3
139	=122	I4/mmm	36	<0.3
140	=169	I4/mcm	17	<0.3
141	=103	I41/amd	51	<0.3
142	=64	I41/acd	143	<0.3
143	83	P3	90	<0.3
144	30	P31	690	<0.3
145	28	P32	714	<0.3
146	26	R3	908	<0.3
147	46	P-3	355	<0.3
148	16	R-3	2,959	0.5
149	=212	P312	4	<0.3
150	=92	P321	69	<0.3
151	194	P3112	10	<0.3
152	40	P3121	494	<0.3
153	=178	P3212	14	<0.3
154	43	P3221	409	<0.3
155	71	R32	125	<0.3
157	=206	P31m	6	<0.3

158	=114	P3c1	44	<0.3
159	75	P31c	111	<0.3
160	61	R3m	160	<0.3
161	42	R3c	443	<0.3
162	=184	P-31m	12	<0.3
163	89	P-31c	74	<0.3
164	=128	P-3m1	31	<0.3
165	=76	P-3c1	110	<0.3
166	66	R-3m	141	<0.3
167	39	R-3c	499	<0.3
168	=167	P6	18	<0.3
169	32	P61	640	<0.3
170	37	P65	551	<0.3
171	=103	P62	51	<0.3
172	=108	P64	47	<0.3
173	50	P63	301	<0.3
174	=184	P-6	12	<0.3
175	=139	P6/m	27	<0.3
176	44	P63/m	390	<0.3
177	=201	P622	7	<0.3
178	78	P6122	103	<0.3
179	90	P6522	73	<0.3
180	=131	P6222	29	<0.3
181	=190	P6422	11	<0.3
182	=119	P6322	39	<0.3
183	=220	P6mm	2	<0.3
184	=201	P6cc	7	<0.3
185	=184	P63cm	12	<0.3
186	97	P63mc	61	<0.3
187	=125	P-6m2	33	<0.3
188	=206	P-6c2	6	<0.3
189	=190	P-62m	11	<0.3
190	=112	P-62c	45	<0.3
191	=125	P6/mmm	33	<0.3
192	=195	P6/mcc	8	<0.3
193	=153	P63/mcm	22	<0.3
194	82	P63/mmc	92	<0.3
195	=190	P23	11	<0.3
196	=184	F23	12	<0.3
197	=112	I23	45	<0.3
198	72	P213	118	<0.3
199	=157	I213	21	<0.3
200	=220	Pm-3	2	<0.3
201	=178	Pn-3	14	<0.3
202	=163	Fm-3	19	<0.3
203	=139	Fd-3	27	<0.3
204	=145	Im-3	24	<0.3
205	53	Pa-3	268	<0.3
206	=119	Ia-3	39	<0.3
207	=136	P432	28	<0.3
208	=195	P4232	8	<0.3
209	=216	F432	3	<0.3
210	=110	F4132	46	<0.3
211	=125	I432	33	<0.3
212	=190	P4332	11	<0.3
213	=178	P4132	14	<0.3

214	=172	I4132	16	<0.3
215	=153	P-43m	22	<0.3
216	=195	F-43m	8	<0.3
217	62	I-43m	148	<0.3
218	=131	P-43n	29	<0.3
219	=153	F-43c	22	<0.3
220	=110	I-43d	46	<0.3
221	=99	Pm-3m	56	<0.3
222	=157	Pn-3n	21	<0.3
223	=151	Pm-3n	23	<0.3
224	=216	Pn-3m	3	<0.3
225	=84	Fm-3m	89	<0.3
226	=145	Fm-3c	24	<0.3
227	=99	Fd-3m	56	<0.3
228	=145	Fd-3c	24	<0.3
229	130	Im-3m	30	<0.3
230	=139	Ia-3d	27	<0.3