

Cambridge Structural Database
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CSD R-factor Statistics

The precision of crystal structure determinations is often assessed using the crystallographic R-factor, a measure of how well the structure factors computed using the refined structural model agree with structure factors given by the experimentally observed diffraction intensities. CSD structures with unreported R-factors often arise from short communications, and most frequently from the earlier literature.

R-factor range	No. in range	% CSD	Cumulative %
0.0100-0.0300	121806	12.3	12.3
0.0301-0.0400	210029	21.2	33.5
0.0401-0.0500	221207	22.3	55.9
0.0501-0.0700	260521	26.3	82.2
0.0701-0.0900	98921	10	92.2
0.0901-0.1000	22935	2.3	94.5
0.1001-0.1500	31021	3.1	97.6
0.1501-	6197	0.6	98.2
Not reported	17501	1.8	100