

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	92810	11.4	11.4
0.0301-0.0400	169806	20.9	32.3
0.0401-0.0500	183114	22.6	54.9
0.0501-0.0700	218086	26.9	81.8
0.0701-0.0900	81885	10.1	91.9
0.0901-0.1000	18437	2.3	94.2
0.1001-0.1500	24887	3.1	97.3
0.1501-	5094	0.6	97.9
Not reported	17019	2.1	100.0