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	139,072	12.5	12.5
0.0301-0.0400	235,750	21.2	33.7
0.0401-0.0500	246,850	22.2	56.0
0.0501-0.0700	289,838	26.1	82.1
0.0701-0.0900	110,787	10.0	92.0
0.0901-0.1000	26,040	2.3	94.4
0.1001-0.1500	35,573	3.2	97.6
0.1501-	7,161	0.7	98.2
Not reported	19,603	1.8	100