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	85614	11.3	11.3
0.0301-0.0400	158348	20.9	32.1
0.0401-0.0500	171561	22.6	54.8
0.0501-0.0700	204826	27.0	81.7
0.0701-0.0900	76572	10.1	91.8
0.0901-0.1000	17140	2.3	94.1
0.1001-0.1500	23162	3.1	97.2
0.1501-	4769	0.6	97.8
Not reported	16852	2.2	100.0