

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	109765	11.8	11.8
0.0301-0.0400	195411	21.0	32.8
0.0401-0.0500	209135	22.5	55.3
0.0501-0.0700	248675	26.7	82.0
0.0701-0.0900	94095	10.1	92.1
0.0901-0.1000	21598	2.3	94.4
0.1001-0.1500	29309	3.1	97.5
0.1501-	6000	0.6	98.1
Not reported	17345	1.9	100.0