

	CSD-Community	CSD-Core	CSD-Discovery	CSD-Materials	CSD-Enterprise
<b>Data</b>					
CSD deposited and curated data	✓ <sup>1</sup>	✓	✓	✓	✓
CSD teaching resources	✓	✓	✓	✓	✓
Proprietary CSD extension		✓	✓	✓	✓
<b>Deposit</b>					
Guided data deposition	✓	✓	✓	✓	✓
CIF syntax check	✓	✓	✓	✓	✓
Reduced cell check	✓	✓	✓	✓	✓
Data validation	✓	✓	✓	✓	✓
CSD DOI and curated CSD entry on publication	✓	✓	✓	✓	✓
Direct publication through CSD Communications	✓	✓	✓	✓	✓
Enhanced data discoverability	✓	✓	✓	✓	✓
Persistent, free storage of your data	✓	✓	✓	✓	✓
Deposition portal allowing you to access, edit and share your deposits	✓	✓	✓	✓	✓
<b>Access</b>					
Retrieve via bibliographic info, DOI, CSD identifiers or compound name	✓	✓	✓	✓	✓
Link from published articles and repositories	✓	✓	✓	✓	✓
Publisher referee services	✓	✓	✓	✓	✓
<b>Search</b>					
Search by chemical formula, cell parameters, 2D/3D substructure, similarity, and more...		✓	✓	✓	✓
Protein-ligand binding sites			✓		✓
<b>Visualise</b>					
3D display and manipulation	✓	✓	✓	✓	✓
High resolution graphics and movie generation	✓	✓	✓	✓	✓
3D printing file output	✓	✓	✓	✓	✓
PXRD pattern simulation	✓	✓	✓	✓	✓
PXRD pattern comparison		✓	✓	✓	✓
Molecule and structure editing	✓	✓	✓	✓	✓
2D diagram generation		✓	✓	✓	✓
<b>Analyse</b>					
Plotting and charting		✓	✓	✓	✓
Descriptive statistics		✓	✓	✓	✓
Interactive visualisation		✓	✓	✓	✓
Filtering and categorisation		✓	✓	✓	✓
Reporting		✓	✓	✓	✓
<b>Integrations</b>					
CSD Pipeline Pilot Component Collection		✓	✓	✓	✓
CSD KNIME Component Collection		✓	✓	✓	✓

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## Conformations

Bond length assessment		✓	✓	✓	✓
Valence angle assessment		✓	✓	✓	✓
Torsion angle assessment		✓	✓	✓	✓
Ring geometry assessment		✓	✓	✓	✓
Conformer generation			✓	✓	✓

## Interactions

Fragment interaction maps (IsoStar)		✓	✓	✓	✓
Protein interaction maps (SuperStar)			✓		✓
Full interaction maps			✓	✓	✓

## Ligand-based drug discovery

Ligand overlay			✓		✓
Field-based ligand screener			✓		✓
Scaffold hopping			✓		✓

## Structure-based drug discovery

Protein-ligand docking			✓		✓
Ensemble docking			✓		✓
Pose analysis			✓		✓
Proprietary structures			✓		✓
Cavity similarity searching			✓		✓

## Solid form analysis

Motif searching				✓	✓
Packing feature searching				✓	✓
Crystal packing similarity				✓	✓
Calculations				✓	✓
Hydrogen bond propensity and coordination assessment				✓	✓
Hydrate analysis				✓	✓
Solvate analysis				✓	✓
Aromatic analysis				✓	✓
Co-crystal design				✓	✓
Hydrogen bond statistics assessment				✓	✓

## CCDC services

On-site training		+	+	+	+
Custom script development		+	+	+	+
In-house database building		+	+	+	+
Solid form risk assessment	+	+	+	+	+
Co-crystal design	+	+	+	+	+
Virtual screening	+	+	+	+	+

<sup>1</sup>Essential curated information for each entry is freely available through Access Structures on the CCDC website. More enhanced curated information is available through CSD-Core, CSD-Discovery, CSD-Materials and CSD-Enterprise

+ Services are available – contact the CCDC for more information

