

# Marvin JS versus MarvinSketch - Comparison of feature sets

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Feature		Marvin JS version 19.18	MarvinSketch
<b>Atom</b>	Atom drawing	+	+
	Periodic Table	+	+
	Charge	+	+
	Isotope	+	+
	Radical	+	+
	Adding lone pairs	+	+
	Automatic lone pair calculation	+	+
	Enhanced stereo notation	+	+
	Query atoms	+	+
	Atom query properties	+	+
<b>Bond</b>	Bond drawing	+	+
	Chemical bonds	+	+
	Query bonds	+	+
	Bond query properties	+	+
	Setting bond thickness and length	-	+
<b>Structure drawing features</b>	Chain drawing	+	+
	Inserting templates	+	+
	Custom templates	+	+
	Predefined abbreviated groups	+	+

	User-defined abbreviated groups	Possible from server side by integrator	+
	Merging	+	+
	Sprout drawing	+	+
<b>Editing features</b>	Drag, zoom, mirror, rotate in 2D	+	+
	Drag, zoom, mirror, rotate in 3D	WS*	+
	Clean 2D	WS*	+
	Clean 3D	WS*	+
	Cut/Copy	+	+
	Paste (data from the same application)	+	+
	Paste (data from another application)	Mol (V2000) and MRV formats (Others: WS*)	+
	Drag&Drop	WS*	+
	Copy/Paste as OLE	-	+
<b>Query features</b>	Setting absolute stereo (Chiral)	+	+
	Atom lists/NOT lists	+	+
	R-group labels	+	+
	R-group definition	+	+
	R-group logic	+	+
	Link nodes	+	+
	Frequency variation	+	+
	Position variation bond	+	+
	Homology groups	+	+
	Homology group properties	-	+

	Alias and pseudo atoms	+	+
<b>Advanced drawing features</b>	Reaction drawing	+	+
	Adding textbox	+	+
	Electron flow arrows	+	+
	Drawing S-groups	-	+
	Data S-groups	atoms, bonds, groups, fragments	+
	Coordinate bond from multi-atom group	+	+
	Graphical elements (circle, line, graphical arrows...)	Ellipse and rectangle	+
	Picture templates	-	-
	Textbox templates	-	-
	Grid/Ruler/Crosshair	-	+
	Alignment	-	+
	Setting text fonts	-	+
	<b>Import/Export features</b>	MRV	+
MDL Molfile V2000		+	+
MDL Molfile V3000		WS*	+
MDL SDfile		WS*	+
SMILES		WS*	+
CXN SMILES		WS*	+
SMARTS		WS*	+
CXN Extended SMARTS		WS*	+
InChi		WS*	+
InChiKey, export only		WS*	+
Name		WS*	+
CML		WS*	+

	XYZ	WS*	+
	CXN Compressed Molfile	WS*	+
	CXN Compressed SDfile	WS*	+
	CDX	WS*	+
	SKC	WS*	+
	Image import: structures	-	with OSRA
	Image import: pictures	-	-
	Image export via GUI	+	+
	Image export via API	+	+
<b>Advanced structural tools and plugins</b>	Valence check	+	+
	Aromatization	+	+
	Explicit hydrogen display	WS*	+
	Mapping (manual)	+	+
	Mapping (automatic)	WS*	+
	Structure Checker integrated	No, but example added how to integrate it.	+
	Calculator Plugins integrated	-	+
<b>Display options</b>	Carbon label visibility	+	+
	Implicit hydrogen visibility	+	+
	Lone pair visibility	+	+
	Atom index visibility	+	+
	Using CPK colors	+	+
	Structure display (wireframe ball & stick, spacefill...)	+	+
	R/S and E/Z stereo notation	WS*	+
	3D display	WS*	+
	Biomolecule display	-	+

<b>Customization</b>	Customization via user-defined buttons for calling JS functionalities	+	-
	Customization of menus, buttons, and shortcuts	No, but presets available.	+
	Built-in configurations (ChemDraw-like, ISIS-like...)	-	+

WS\* : To have this function in Marvin JS, the appropriate Webservice (WS) is needed. For more information about Webservises, please, consult with the [documentation](#) or contact us [support@chemaxon.com](mailto:support@chemaxon.com).

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