











Oxygen Atoms

Atom Species	Catalog No.	Bond Arrangement	Color	Bond Angle	van der Waals Radii,	Covalent Radii,		
						Single Bond	Double Bond	Triple Bond
O-Single Bond	CGS-8037.79		Red	110°	1.35	0.66	–	–
O-Double Bond	CGS-8038.79		Red	–	1.35	–	0.57	–
O-Indented Double Bond	CGS-8039.79		Red	–	1.35	–	0.57	–
N-Nitrile Triple Bond	CGS-8040.79		Blue	180°	1.60	0.70	–	0.60
N-Aromatic-5	CGS-8041.79		Blue	108° 126°	1.70	0.73	0.68 (partial)	–
N-Amide	CGS-8042.79		Blue	123° 114° 123°	1.45	0.70 0.70	0.60 (partial)	–
N-Aromatic-6	CGS-8043.79		Blue	120°	1.70	0.73	0.69 (partial)	–
N-Tetrahedral	CGS-8044.79		Blue	109°30'	–	0.70	–	–
N-Tetrahedral-4	CGS-8045.79		Blue	114° 112° 114° 88°	1.25	0.76 0.77	–	–
N-Trigonal-4	CGS-8046.79		Blue	134° 92° 134°	1.48	0.73 0.73	0.65	–



Oxygen, Single Bond

Triple-slotted to accept H-Bond, Bayonet Type, Hydrogen and H-Bond, Hook Type, Hydrogen for H-bonding. Center slot extends $\pm 48^\circ$; side slots $\pm 35^\circ$ at $\pm 15^\circ$ displacement from center line; Covalent radius 0.66Å; bond angle 110°. Red.

Catalog No.	Product
CGS-8047.79	Oxygen, Single Bond



Oxygen, Double Bond

Also serves as negatively-charged oxygen. Covalent radius 0.57Å. Red.

Catalog No.	Product
CGS-8048.79	Oxygen, Double Bond



Oxygen, Indented Double Bond

With indented sides; indentations on radii of 1.15Å about centers spaced laterally, 2.1Å from spherical center of atom. Three slots on the surface of the atom and parallel to the long axis of the indentations accept H-Bond, Bayonet Type, Hydrogen and H-Bond, Hook Type, Hydrogen for H-bonding. All three slots extend $+48^\circ$ and the side slots are displaced $+15^\circ$ from the center line. Connector socket is notched to accept restricted rotation connectors. Covalent radius 0.57Å. Red.

Catalog No.	Product
CGS-8049.79	Oxygen, Indented Double Bond