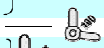
Cochranes of Oxford Ltd

Orbit™ Molecular Model Sets - Atom and Bond Quantities

Code	Atom	Element	Colour	shape	Bond Angle: Degrees	Large set ref 0041	Class sets ref 0046	ref 0047	ref 0048	ref 0049	Individual sets ref 0026	ref 0027	ref 0028	ref 0029	ref 0045
0216	Ha	Hydrogen	White			250	130	100		110	91	50		77	18
0217	Na	Nitrogen	Blue			10		20		2		10			2
0218	Oa	Oxygen	Red			50	10	25		25	5	10		12	2
0219	Fa	Fluorine	Light green			10		20		2		10			
0220	Sa	Sulfur	Yellow			10		10		2		2			
0221	Cla	Chlorine	Green			10	10	30		2	4	15		2	6
0222	Bra	Bromine	Blue-green			10				2					
0223	Ia	Iodine	Dark Green			10				2					
0224	Hb	Hydrogen	White		180	40	50		25	15	25		24	13	
0225	Cb	Carbon	Black		180	5		20		2		10			2
0226	Nb	Nitrogen	Blue		180	5		5		2		2		1	
0227	Ob	Oxygen	Red		180	20				10				13	
0228	Sc	Sulfur	Yellow		100	10	25	25		2	9	10		2	
0229	Nd	Nitrogen	Blue		110	10				5				2	
0230	Od	Oxygen	Red		110	120	21	50		35	10	25		28	6
0231	Ne	Nitrogen	Blue		120	10				5				3	
0232	Cf	Carbon	Black		100,130,130	3									
0233	Pf	Phosphorous	Purple		100,130,130	10				2					
0235	Cg	Carbon	Black		108,120,132	20				10				5	
0236	Ch	Carbon	Black		108,126,126	20				5				6	
0237	Nh	Nitrogen	Blue		108,126,126	20				5				2	
0238	Oh	Oxygen	Red		108,126,126	10				5					
0239	Ci	Carbon	Black		114,123,123	20				20				13	
0240	Ni	Nitrogen	Blue		114,123,123	20				20				13	
0241	Cj	Carbon	Black		120,120,120	100	50	25	45	25	25	20	37	13	6
0242	Nj	Nitrogen	Blue		120,120,120	50	6	10		15	2	6		8	2
0243	Oj	Oxygen	Red		120,120,120	20			45				25		
0244	Ck	Carbon	Black		110	110	75	100	35	50	50	30	31	33	12
0245	Nk	Nitrogen	Blue		110	10	9	10		2	4	10		2	2
0246	Ok	Oxygen	Red		110	20	30	10	15	5	20	10	13		2
0247	Pk	Phosphorous	Purple		110	20		15		10		5		5	1
0248	Sk	Sulfur	Yellow		110	12	3	10	40	2	2	5	26		1
0249	Cu	Copper	copper												
0250	Halk	Halogen	Green		110	30			10				10		
0251	Mk	Metal	Silver		110	30		5	25	5		2	21	1	
0252	Cl	Carbon	Black		90	6						2			2
0253	Nl	Nitrogen	Blue		90	4									
0254	Ol	Oxygen	Red		90	14									
0255	Sl	Sulfur	Yellow		90	5		5				1			
0256	Fel	Iron	Grey		90	12				4				1	
0257	HALl	Halogen	Green		90	20	30		25		15		15		
0258	Ml	Metal	Silver		90	20	30	5	35		15	2	15		
0259	Cm	Carbon	Black		90,120	6						6			2
0260	Nm	Nitrogen	Blue		90,120	4						1			
0261	Om	Oxygen	Red		90,120	4						1			
0262	Pm	Phosphorous	Purple		90,120	2		5				1			
0263	HALp	Halogen	Green			5			12				5		
0264	Mp	Metal	Silver			20			22				19		
0265	Mq	Metal	Silver			40	40		50		13		21		
0267	X pegs	Double bondir	Natural			30		12		12		6		5	4
	Total atoms (excludes pegs)					**1267**	**519**	**505**	**384**	**408**	**290**	**246**	**262**	**255**	**66**

	BONDS											
	Type and colour	**Length**										
1300	Orbit Thick, light-grey	20 cm										
1302	Orbit Thick, light-grey	5cm	150		50				20			
1303	Orbit Thick, light-grey	3.5cm	250	200	150	250	150		100	100	100	50
1304	Orbit Thick, light-grey	3cm	150				50	150			50	
1305	Orbit Thick, light-grey	2.5cm										
1306	Orbit Thick, light-grey	2cm	200	150	100	50	150		50	50	70	20
3533	Orbit Extra-rigid grey	3.5cm	45		15				15			15
0182	Rigid white	10cm				15				15		
0449	Rigid white	5cm	60	60		30	30	30		15	15	
0457	Rigid white	3.5cm	90			30				30		
	Rigid mixed	10cm						1	1	1	1	
0207	Rigid mixed	21cm	4	1	1		1					
0213	Very flexible white	21cm	6	2	2		2					
0187	Very flexible white	5cm	6					4	10		3	6
0273	Very flexible white	3.5cm										
	Total bonds (12 bonds per mixed bundle)		**1005**	**424**	**329**	**375**	**394**	**196**	**207**	**222**	**250**	**91**

Set descriptions

0041	Orbit Large Set	0045	Orbit Foundation Set for Inorganic and Organic Chemistry
0046	Orbit Basic Structures Class Set	0026	Orbit Basic Structures Individual Set
0047	Orbit Organic and Inorganic Chemistry Class Set	0027	Orbit Organic and Inorganic Chemistry Individual Set
0048	Orbit Lattices Class Set	0028	Orbit Lattices Individual Set
0049	Orbit Biochemistry Class Set	0029	Orbit Biochemistry Individual Set

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