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Operating instructions



The unit complies
with the correspond-
ing EC guidelines



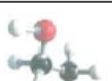
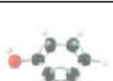
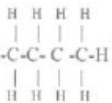
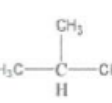
Fig. 1: 39830-01 Molecular model construction set, student/demo, ball sizes 23/30 mm

Function and Applications

Molecular construction kit suitable for both students and demo with 179 atoms of 11 elements. The ball diameters are slightly larger than usual for student molecule kits (23 mm instead of 17 mm for hydrogen and 30 instead of 23 mm for all other atoms).

Benefits

- Large ball diameters, therefore suitable for students as well as for front-of-class teaching
- Equipped with all necessary elements and connectors
- Optimally suited for both beginning and advanced chemistry classes in high school
- In two transportable plastic boxes
- All parts are extremely stable and colored in the international standard color

			
Ethane ($\text{H}_3\text{C}-\text{CH}_3$)	Ethylene ($\text{H}_2\text{C}=\text{CH}_2$)	Acetylene ($\text{HC}\equiv\text{CH}$)	Benzene (C_6H_6)
			
Ethanol ($\text{C}_2\text{H}_5\text{OH}$)	Acetaldehyde (CH_3CHO)	Acetic acid (CH_3COOH)	Phenol ($\text{C}_6\text{H}_5\text{O}$)
			
Methane (CH_4)	Propane (C_3H_8)	Nitrogen (N_2)	Oxygen (O_2)
			
n-Butane (C_4H_{10})	i-Butane (C_4H_{10})		

Molecular model construction set, student/demo, ball sizes 23/30 mm 39830-01					
Atoms	Holes (Angle)	Color	Diam. (mm)	Qty.l	Drawing
H-Hydrogen	1	White	23	70	
C-Carbon	4 (109°28') Tetrahedral	Black	30	32	
C-Carbon	5 (120°/90°) Triagonal bipyramidal	Black	30	12	
O-Oxygen	1	Red	30	2	
O-Oxygen	2 (105°) Bent	Red	30	16	
O-Oxygen	4 (109°28') Tetrahedral	Red	30	6	
N-Nitrogen	3 (107°) Triagonal pyramidal	Blue	30	8	
N-Nitrogen	4 (109°28') Tetrahedral	Blue	30	8	
S-Sulfur	2 (105°) Bent	Yellow	30	4	
S-Sulfur	6 (90°) Octahedral	Yellow	30	1	
Cl-Chlorine	1	Green	30	6	
Metal	1	Silver	30	6	
Br-Bromine	1	Brown	30	2	
F-Flourine	1	Orange	30	2	
I-Iodine	1	Deep purple	23	2	
P-Phosphorus	5 (120°/90°) Triagonal bipyramidal	Purple	30	2	
Links		Color	Length (8mm)	Qty.	Drawing
Medium (single, rigid)		Grey white	44	100	
Long (double/triple, flexible)		Grey white	63	40	
Medium (single, rigid)		Purple	44	30	
Long (double/triple, flexible)		Purple	63	20	
Short (for space-filling models)		Translucent	11	100	
Short link remover tool				2	