

CHEMISTRY ADVENT 2018 9

1860



JOSEF LOSCHMIDT

🇨🇪 1821-1895



Created two-dimensional diagrams for over 300 different molecules



The first scientist to estimate the size of the molecules that make up the air



The Loschmidt constant (number of molecules in a given volume of gas at STP) is named after him



Some have claimed that he was first to depict benzene's cyclic structure

1862

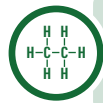


AUGUST KEKULÉ

🇩🇪 1829-1896



Identified the tetravalence of carbon in 1857, and the ability of carbon atoms to link to each other



Developed the Kekulé formula for representing the structure and bonding in organic compounds



In 1865, published a paper suggesting that benzene's structure consists of alternating double and single bonds

1866



DMITRI MENDELEEV

🇷🇺 1834-1907



Built on the work of Lothar Meyer and John Newlands to create the periodic table of the elements



Mendeleev's table was distinguished by the fact he left gaps for elements that had yet to be discovered and predicted what their properties would be



Never won a Nobel Prize, but element 101, mendeleevium, is named after him

1868

