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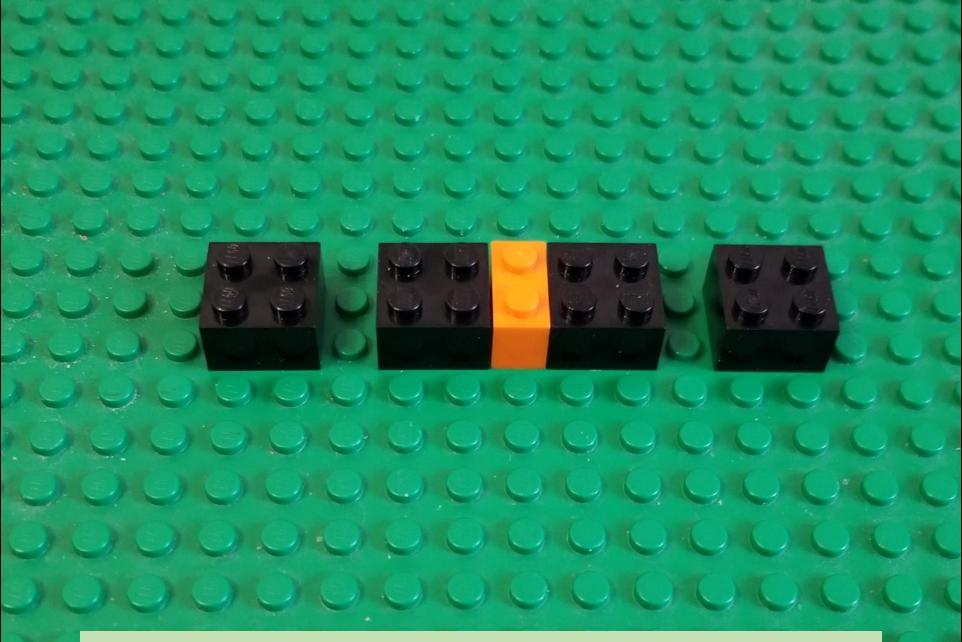
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Part 11

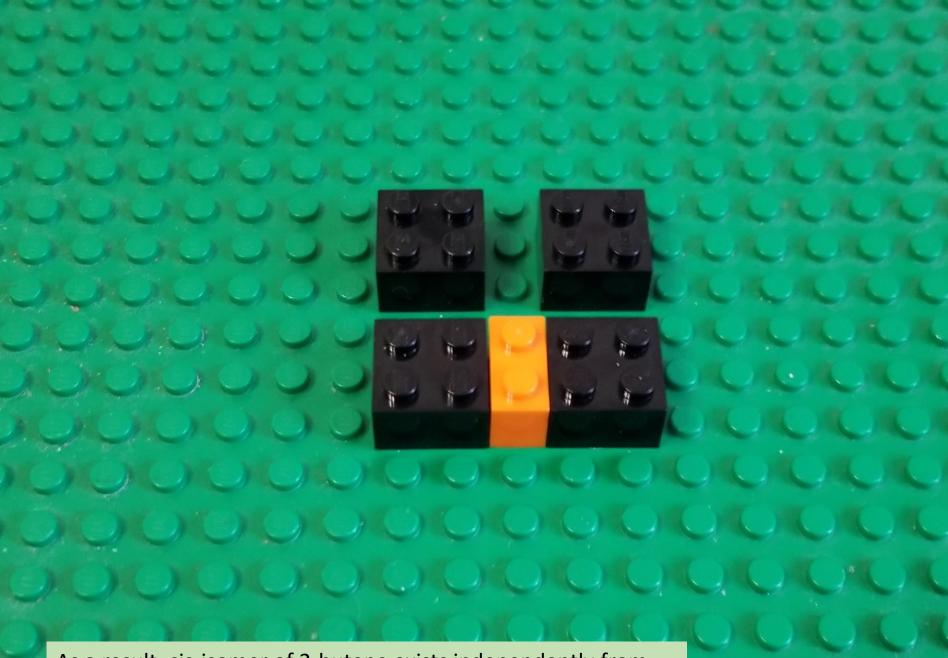
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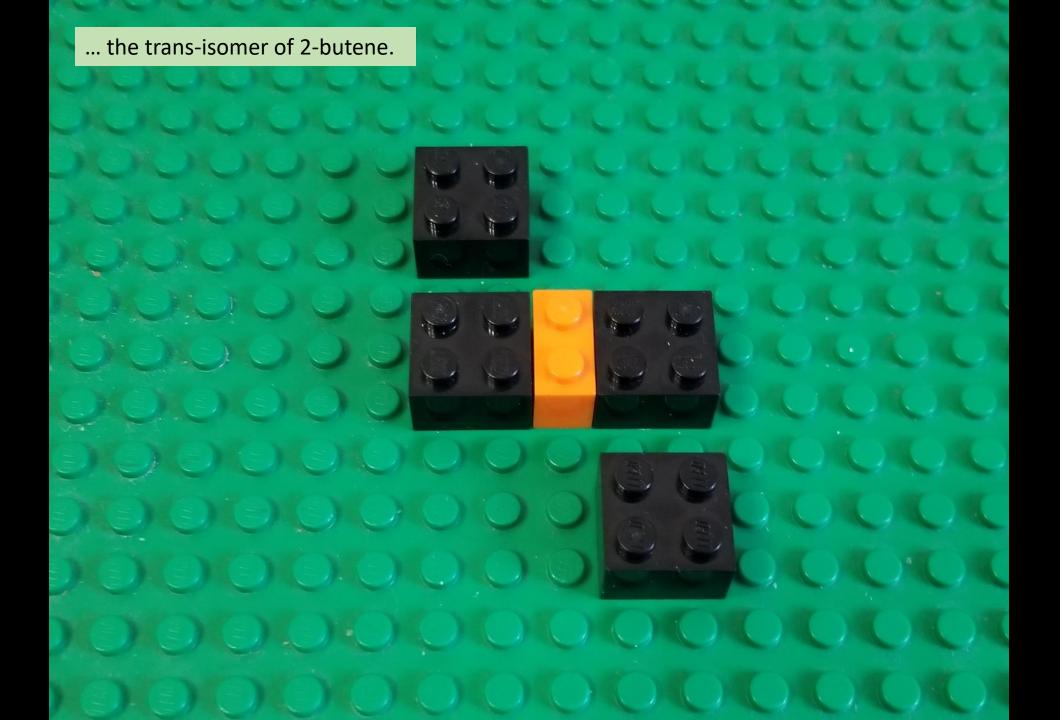
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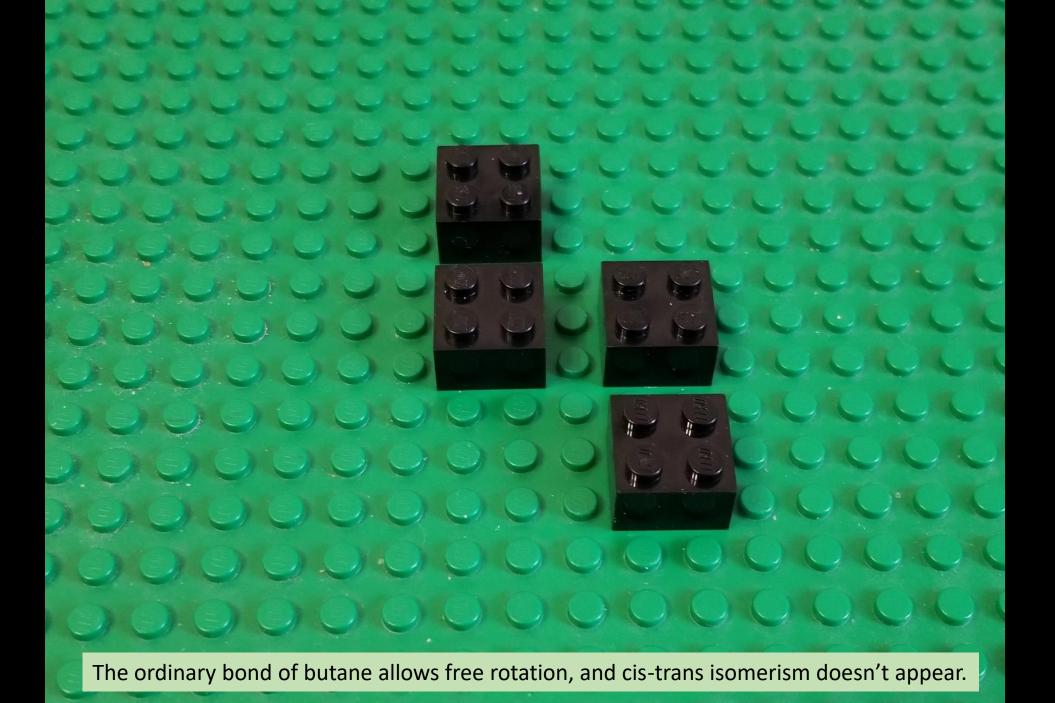


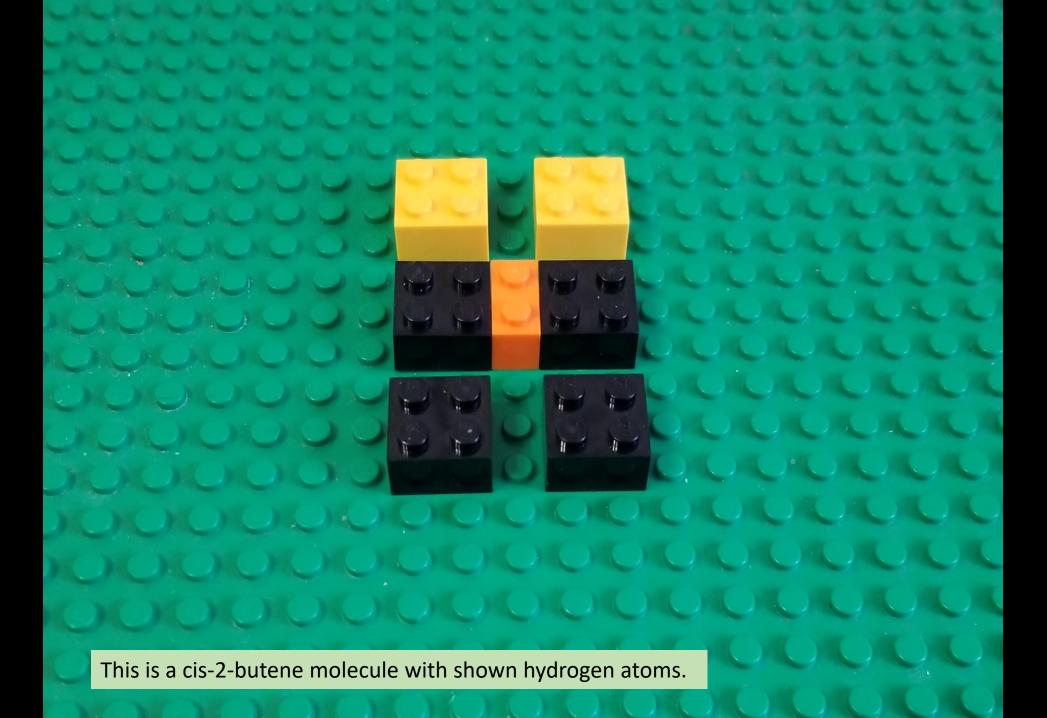
We now look at geometric isomerism. The double bond between carbon atoms is rigid and doesn't allow rotation.

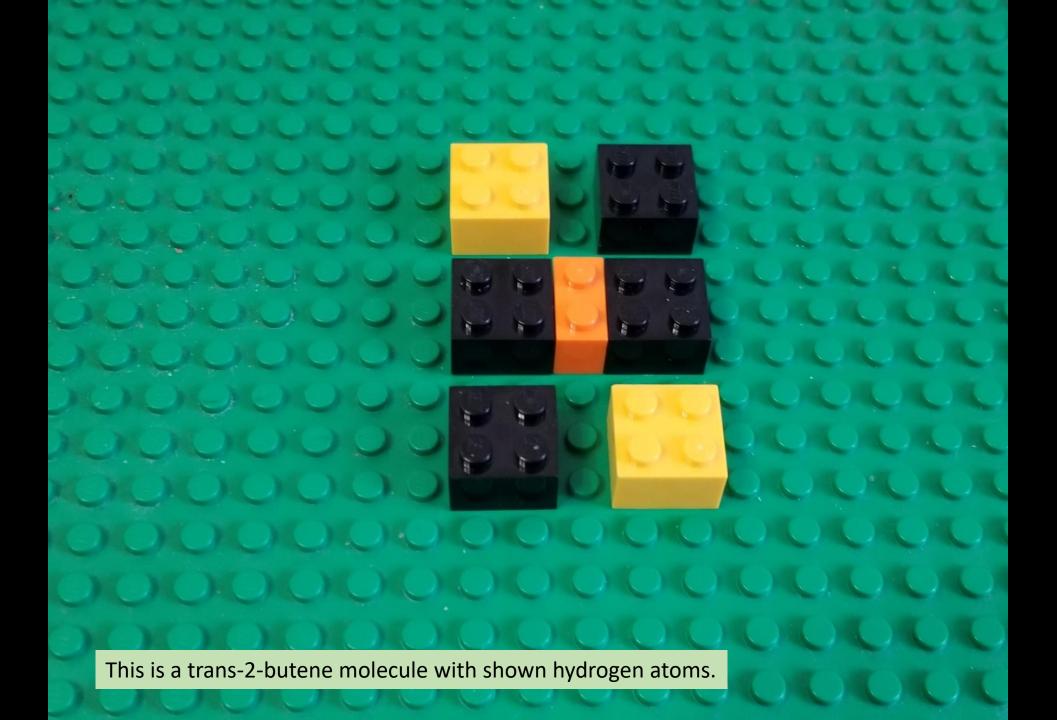


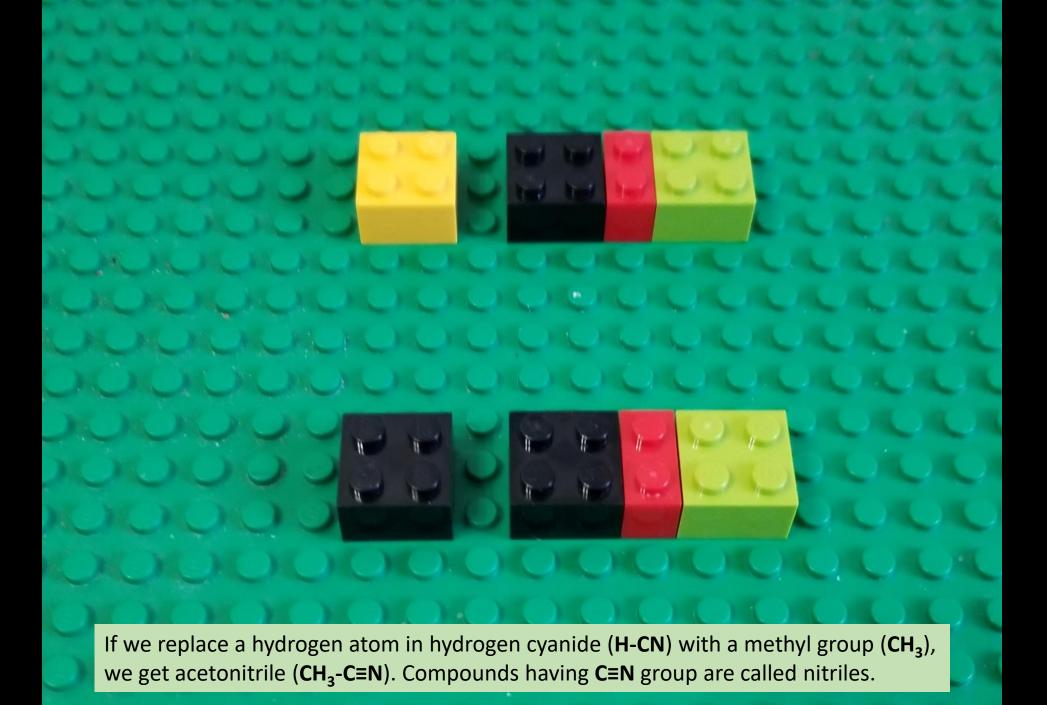
As a result, cis-isomer of 2-butene exists independently from ...



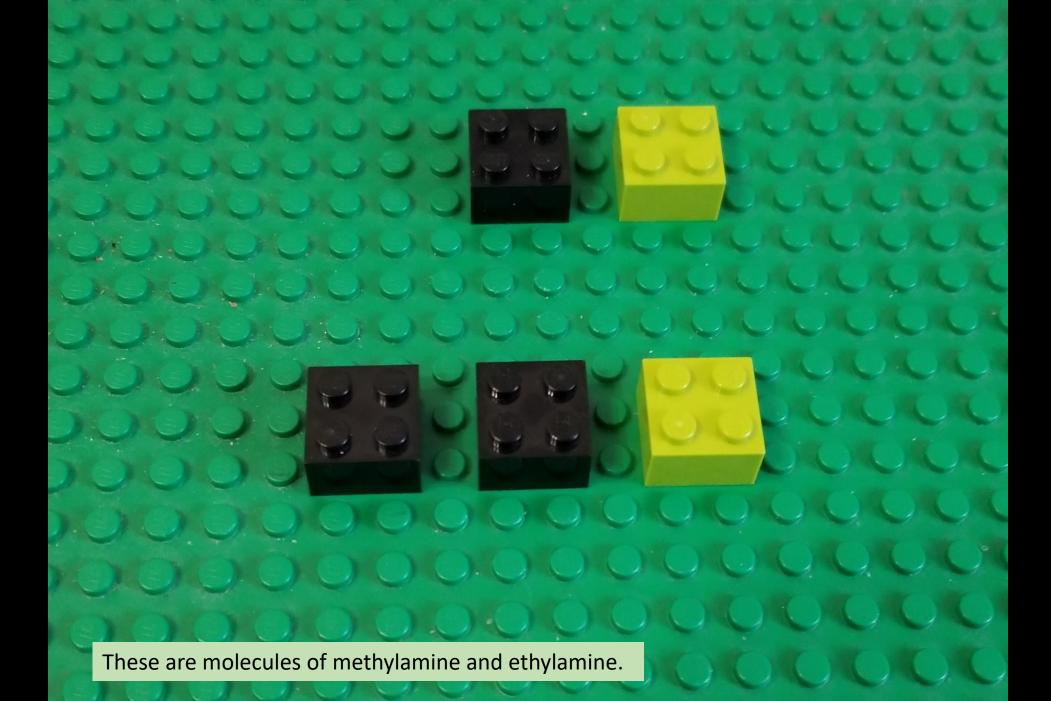








If we replace a hydrogen atom in ammonia (NH₃) with a methyl group (CH₃), we get methylamine (CH₃-NH₂). Compounds having NH₂ group are called amines.



Now we show a few more complex molecules. This is one form of glucose which has 5 hydroxyl groups (-OH) and one aldehyde group (-CH=O).

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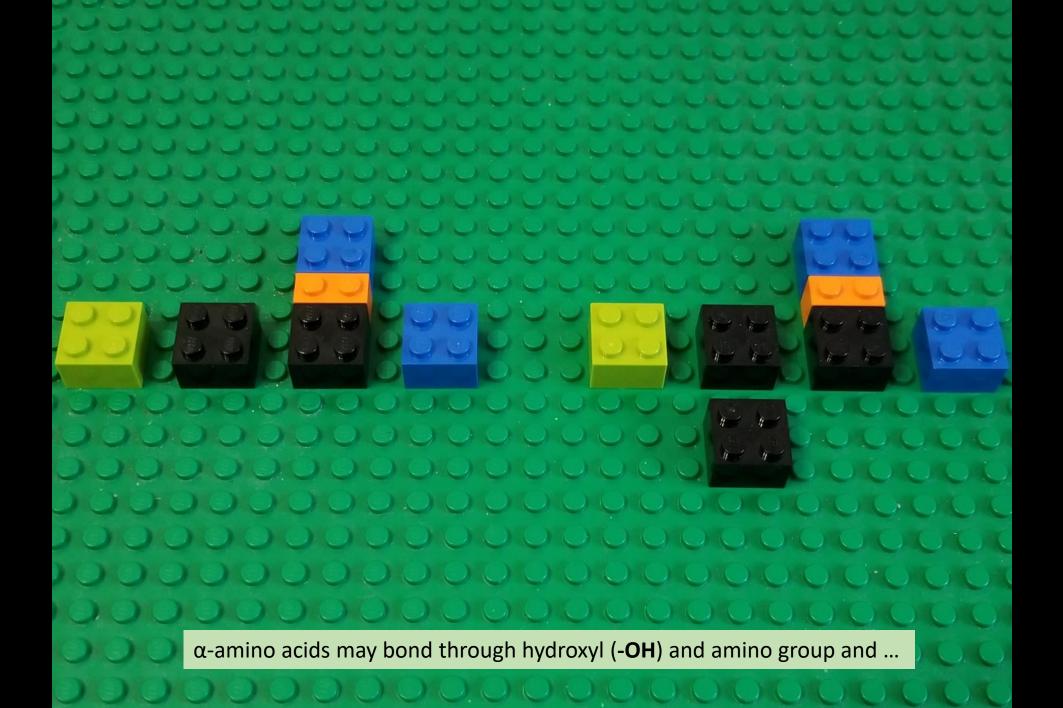
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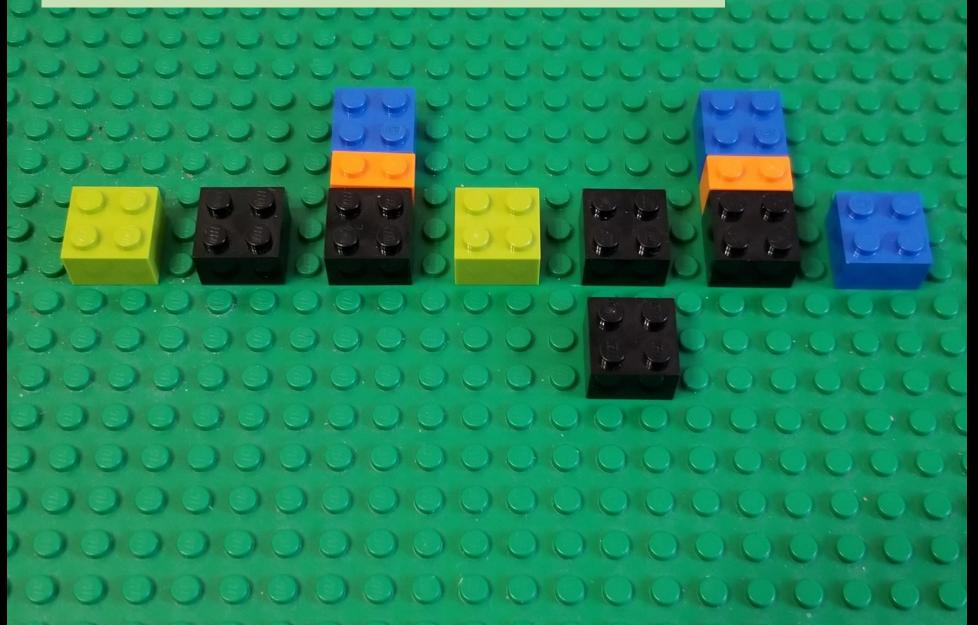
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Molecules that contain amino $(-NH_2)$ and carboxyl (-COOH) groups are called amino acids. This is the simplest amino acid – glycine (aminoacetic acid, 2-aminoethanoic acid).

This is a molecule of alanine (2-aminopropanoic acid). Amino acids that have amino group adjacent to carboxyl group are called α -amino acids



... form peptide bonds. Proteins (polypeptides) are compounds that consist of chains of α -amino acids connected by peptide bonds.



This is another complex molecule: monosodium

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This is another complex molecule: monosodium glutamate, food enhancer, MSG, sodium 2-aminopentanedioate. We see Na⁺ and 2 deprotonated carboxyl groups (-**COO**⁻).

