

We have all the solutions.



Chemical structures of various compounds:

- β -CAROTENE**: A long-chain tetraterpene hydrocarbon with 11 conjugated double bonds and two non-conjugated double bonds at each end.
- cis*-3-HEXEN-1-OL**: A six-carbon chain with a hydroxyl group at C1 and a *cis*-double bond at C3.
- n*-HEXANOL & 2-HEXENAL**: Two isomers with the same molecular formula (C₆H₁₂O). *n*-Hexanol is a straight-chain alcohol with a hydroxyl group at C1. 2-Hexenal is an α,β -unsaturated aldehyde with a double bond between C2 and C3, and an aldehyde group at C1.
- CINNAMALDEHYDE**: A benzene ring attached to a propenal side chain (CH=CH-CHO).
- EUGENOL**: A benzene ring with a methoxy group (H₃CO-) at the 3-position and an allyl group (-CH=CH-CH₂-) at the 1-position.



A pumpkin's hue is due to carotenoid compounds such as β -carotene – the same compound that gives carrots their orange color.



The main contributor to a pumpkin's smell is *cis*-3-hexen-1-ol, along with other six-carbon alcohols and aldehydes.



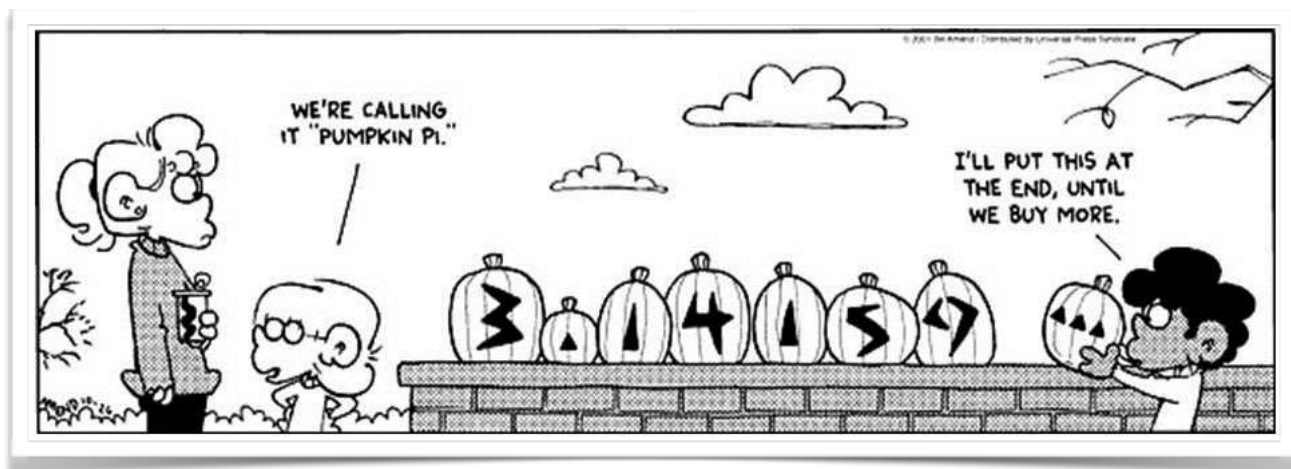
Pumpkin spice flavor has little to do with pumpkin and more to do with the spices added, including nutmeg, cinnamon (cinnamaldehyde) and clove (eugenol).

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You can turn the form in to the Chemistry Club Room (CHEM 223), Dr. David Dillon, or a Chemistry Club officer at any time.



This Week's Meeting

Chemistry Club Success

First, THANK YOU to everyone who participated in any Chemistry Club event for the month of October. As a club, we have had tremendous success with East High School demonstrations, Program in a Box, Chem Day, and the Haunted House. It is because of YOU that Chemistry Club has been resurged — proudly having over thirty members, a campus-wide reputation, and the gratitude of so many department faculty members. I speak for Nich, Keenan, and myself when I say I am honored to be on your team.

For the month of the November, look forward to the Big Steps Workshop, taking place on Saturday, November 10th. Though it is this weekend, please contact Dr. Dillon or Dr. Bonetti regarding any questions. The Winter Light Show is approaching as well; in our next meeting (November 8th), we will brainstorm ideas on fundraising and Christmas decorations.

IMPORTANT DATES

Big Steps Workshop: November 10th at 10:00 A.M. to 12:30 P.M.

Denver Museum of Nature and Science: November 17th at 8:00 A.M.

Winter Light Show: November 29th & 30th from 7:00 A.M. to 9:00 A.M.

