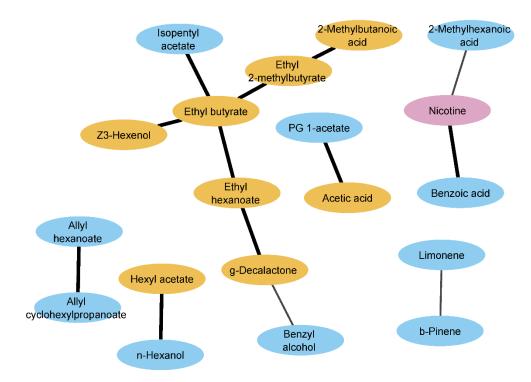
Supplementary file

Supplementary Example 1: co-occurrence analysis odds ratio

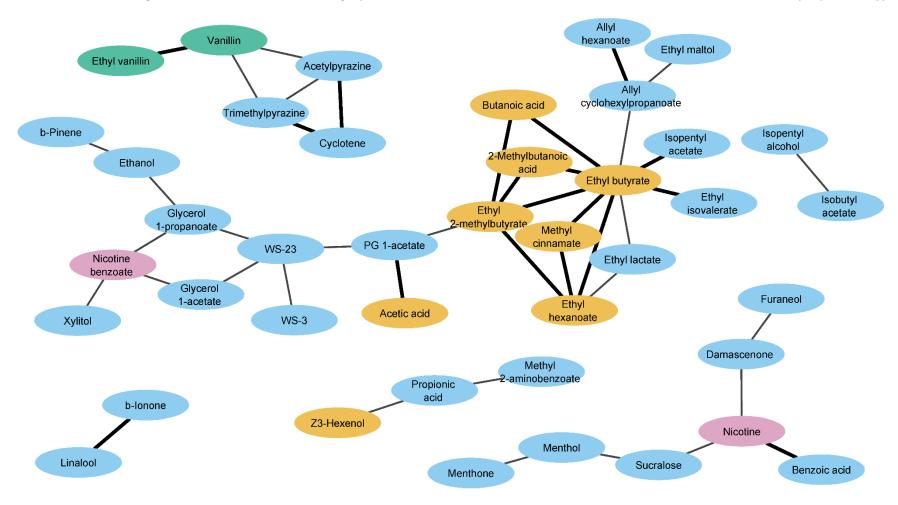
		Ethyl 2-methylbutyrate	
		absent	present
Dimethyl	absent	25967	5199
sulfide	present	566	1447

In this example, there are 33,179 e-liquids. Ethyl 2-methylbutyrate and dimethyl sulfide occur together in 1,447 of these, which is 4.4% of all liquids. The odds for finding ethyl 2-methylbutyrate in an e-liquid that *does not* contain dimethyl sulfide is 5,199/25,967 = 0.20. The odds for finding ethyl 2-methylbutyrate in an e-liquid that *does* contain dimethyl sulfide is 1,447/566 = 2.56. Hence the odds ratio = 2.56/0.20 = 12.8.

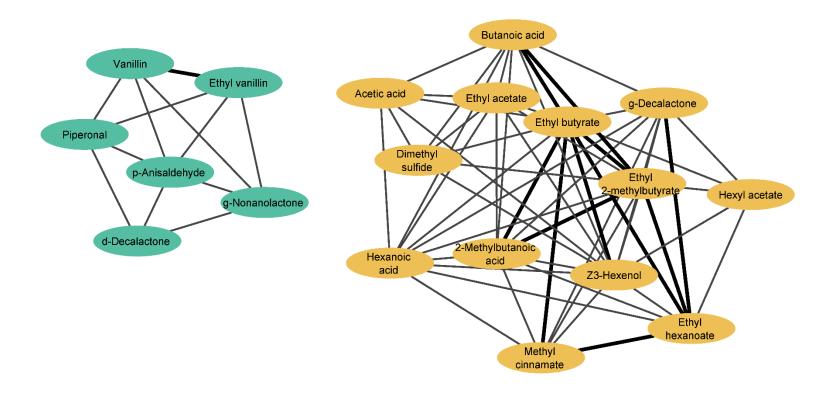
Supplementary Figure 1. Ingredient network for disposable e-cigarettes. Connections indicate significantly overrepresented ingredient combinations. Orange, cluster B; blue, other flavorings; pink, nicotine. Bold lines indicate combinations found for multiple product types.



Supplementary Figure 2. Ingredient network for rechargeable e-cigarettes. Connections indicate significantly overrepresented ingredient combinations. Green, cluster A; orange, cluster B; blue, other flavorings; pink, nicotine or related. Bold lines indicate combinations found for multiple product types.



Supplementary Figure 3. E-liquid ingredient network clusters A (left) and B (right). Connections indicate significantly overrepresented ingredient combinations. Bold lines indicate combinations found for multiple product types.



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