

## FIGURE 12

**Formula for a cola aroma compound (in parts by weight)**

*(2012 thesis by Yaowapa Lorjaroenphon at the Univ. of Illinois at Urbana-Champaign)*

<u>Compound</u>	<u>Concentration (nanograms/gram)</u>
(R)-(+)-limonene	5,050
alpha-terpineol	4,180
(E)-cinnamaldehyde	1,600
4-terpineol	702
vanillin	176
1,8-cineole	101
(+)-borneol	107
(-)-borneol	99.3
linalool	74.1
coumarin	46.0
octanal	35.2
nonanal	26.4
geraniol	23.3
decanal	17.6
iso-borneol	15.8
nerol	11.5
guaiacol	1.5
methyleugeneol	8.7
eugenol	6.3
(E)-isoeugeneol	2.7
(Z)-isoeugeneol	0.2



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(54) **METHODS AND COMPOSITIONS FOR IMPROVING THE TASTE OF DIET COLA SODAS AND OTHER BEVERAGES**

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**ABSTRACT**

An improved carbonated beverage comprises adding ethyl benzoate or a coca leaf extract to a diet soda, in particular, a diet cola soda. An improved diet cola beverage comprises an extract of the coca leaf. Such improved beverages can additionally comprise sugar, glucose or an artificial sweetener. The extract of coca leaf plant may be decocainized, and provided in either liquid or powder form. One ratio of diet cola beverage product and the extract of the coca leaf plant is a ratio by weight of approximately 22:1 to 44:1 of beverage:extract.