



**Leonard Clinton Williams III [REDACTED]@gmail.com>**

Dec 11th, 2023, 2:44 AM

**Re: Email for December 8th, 2023**

**To:** "Division, Criminal (CRM)" <Criminal.Division@usdoj.gov>, civil.feedback@usdoj.gov

I just fact checked myself. I fact check myself quite a bit, on things that I learned long ago. I remembered that from physics class in 2008. ChatGPT cleared it up for me. My memory was off a little bit.

Burning one gallon of gasoline produces about 19.6 pounds (8.89 kilograms) of carbon dioxide (CO<sub>2</sub>). This figure is derived from the carbon content of gasoline and the chemistry of combustion.

Here's a basic explanation of how this calculation is made:

1. **Carbon Content**: A gallon of gasoline contains about 6 pounds (2.72 kilograms) of carbon.
2. **Combustion Process**: When gasoline burns, the carbon in it combines with oxygen from the air to form CO<sub>2</sub>. The chemical reaction is  $C + O_2 \rightarrow CO_2$ .
3. **Molecular Weight**: The atomic weight of carbon (C) is 12, and oxygen (O) is 16. So, the molecular weight of CO<sub>2</sub> (which has one carbon atom and two oxygen atoms) is  $12 + (16 \times 2) = 44$ .
4. **Weight Calculation**: Since CO<sub>2</sub> consists of one carbon atom and two oxygen atoms, the weight of CO<sub>2</sub> produced from burning carbon is proportionate to the ratio of their molecular weights. The ratio is  $44/12$ , so for every pound of carbon burned,  $44/12 = 3.67$  pounds of CO<sub>2</sub> are produced.

Therefore, 6 pounds of carbon (in one gallon of gasoline) produce  $6 \times 3.67 = 22.02$  pounds of CO<sub>2</sub>. However, gasoline is not pure carbon; it's a mix of hydrocarbons. Adjusting for this, the actual amount is about 19.6 pounds of CO<sub>2</sub> per gallon of gasoline.

---

Warmest Regards,

Clint Williams

(980)-[REDACTED]