

# INFORMATION CARD

## TRAVEL



### KEYWORDS

carbon footprint, sustainability, economy, ecological footprint, environment, carbon dioxide, emissions, nature

### Size of a football field

105 m x 68 m = 7140 m<sup>2</sup>

### Distance between stadium and your city

Calculate with google maps: e.g. 1019 km Modena (Italy) - St. Denis(France);  
1643 km Berlin (Germany) - Bordeaux (France)

### CO<sub>2</sub> emission (mean value per passenger)

car	train	plane	bus
50 g/km (car sharing) 250 g/km (per car)	122.5 g/km	395 g/km	62.5 g/km

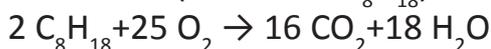
### Absorption of CO<sub>2</sub>

(average accumulated annually per tree)

1 tree absorbs 46 kg/year per surface area of 25 m<sup>2</sup>

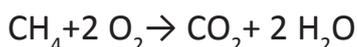
### Combustion reactions

Petroleum (isooctane C<sub>8</sub>H<sub>18</sub>)



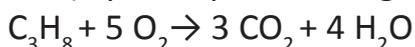
Molecular weight (W): C<sub>8</sub>H<sub>18</sub> = 114 g/mol; CO<sub>2</sub> = 44 g/mol

Methane



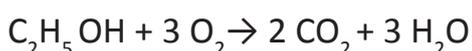
Molecular weight (W): CH<sub>4</sub> = 16 g/mol; CO<sub>2</sub> = 44 g/mol

LPG(liquified petroleum gas)



Molecular weight (W): C<sub>3</sub>H<sub>8</sub> = 44 g/mol; CO<sub>2</sub> = 44 g/mol

Ethanol



Molecular weight (W): C<sub>2</sub>H<sub>5</sub>OH = 46 g/mol; CO<sub>2</sub> = 44 g/mol