ENEM - 2020

01) $PC = \frac{\Delta H}{MM} = \frac{KJ/\cancel{MOL}}{g/\cancel{MOL}} \rightarrow KJ/g$

MAPO

ETANOL -

$\frac{KCAL}{\ell} \therefore \frac{R\$}{\ell}$

$\frac{PC}{R\$} =$

$\frac{5380}{2,53} = 2.118,95 \ KJ/R\$$

GASOLINA

$\frac{8325}{4,378} = 1.901,55 \ KJ/R\$$

PC.

ETAN

5380 $\frac{KCAL}{\ell}$

GASOLINA

8325 KCAL/ℓ

MINAS

$\frac{PC}{R\$} =$

ETANOL $\frac{5380}{2,86} = 1.875,22 \ KJ/R\$$

GASOL. $\frac{8325}{4,468} = 1.863,25 \ KJ/R\$$

$\frac{PC_{ET}}{PC_{GAS}} = \frac{5380}{8325} = 0,646$

64,6 %

02) $_1H^{1}$ 1p+ 1e- 0n → $H^+$ 1p+ 0e- 0n

03) $_{55}Cs^{137} \rightarrow {}_{-1}\beta^0 + {}_{56}X^{137}$ $_{56}Ba^{137}$

P = 30,2 ANOS

a) t = ?

m = 1/4

$m_0 = 1$

$m = \frac{m_0}{2^x} \rightarrow \frac{1}{4} = \frac{1}{2^x} \rightarrow 2^x = 4 \rightarrow 2^x = 2^2$

X = 2

$P = \frac{t}{x} \rightarrow 30,2 = \frac{t}{2} \rightarrow t = 60,4 \text{ ANOS}$

$_{55}Cs^{137}$ P = 55

e = 55

n = 82