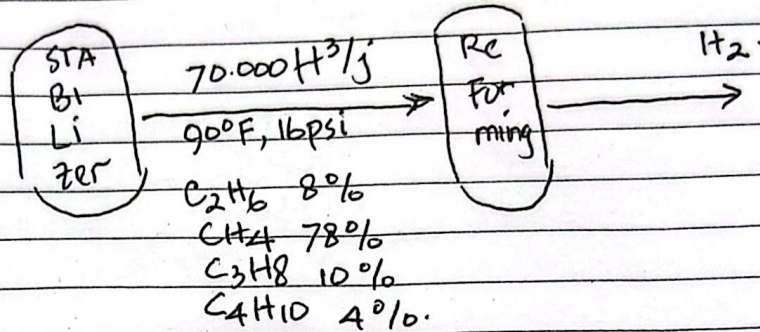


No. : _____

Tanggal : _____



Basis : 70.000 ft³/jam

Jumlah mol gas masuk Reforming :

$$PV = nRT \Rightarrow n = \dots$$

Mol masing² komponen

$$C_2H_6 = \dots \text{ lbmol}$$

$$CH_4 = \dots \text{ "}$$

$$C_3H_8 = \dots \text{ "}$$

$$C_4H_{10} = \dots \text{ "}$$

$$\text{Total mol} = \dots \text{ lbmol}$$

No. : _____

Tanggal : _____

Berat gas masing² komponen

$$C_2H_6 = \quad \times BM = \quad lb$$

$$CH_4 = \quad \times BM = \quad lb$$

$$C_3H_8 = \quad \times BM = \quad lb$$

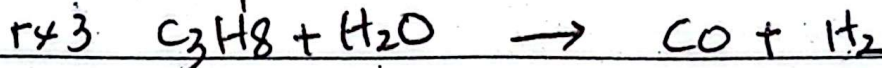
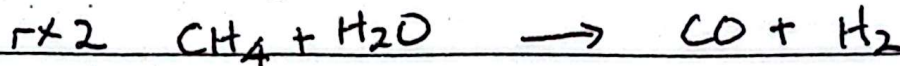
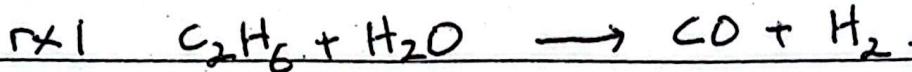
$$C_4H_{10} = \quad \times BM = \quad lb$$

$$\text{TOTAL} = \quad lb$$

//

$$BM \text{ gas} = \quad - -$$

c) Reaksi :



Konversi alkana 95%.

$$rx1 \quad C_2H_6 \text{ bereaksi} = 0,95 \times \quad - \text{ lbmol} = \quad \text{lbmol}$$

$$rx2 \quad CH_4 \quad " \quad =$$

$$rx3 \quad C_3H_8 \quad " \quad =$$

$$rx4 \quad C_4H_{10} \quad " \quad =$$

KNI

No. : _____

Tanggal : _____

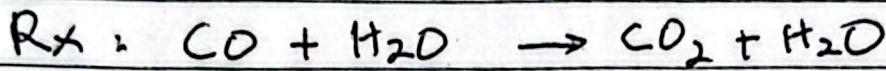
CO terbentuk

$r_{x1} : CO =$ |bmo|

$r_{x2} : CO =$ "

$r_{x3} : CO =$ "

$r_{x4} : CO =$ "



Konversi CO 90%.

r_{x1} H₂ terbentuk =

r_{x2} H₂

r_{x3} H₂

r_{x4} H₂ "

Berat H₂ keluar Reforming = |bm

KNI