1. **Kadar Air**

    a. Sampel 1

    m1 = 43

    m2 = 48

    m3 = 47,57

    $$(\%) = \frac{m_2 - m_3}{m_2 - m_1} \times 100\%$$

    $$(\%) = \frac{48 - 47,57}{48 - 43} \times 100\%$$

    $$= 0,90\%$$

    b. Sampel 2

    m1 = 36,90

    m2 = 41,91

    m3 = 41,64

    $$(\%) = \frac{m_2 - m_3}{m_2 - m_1} \times 100\%$$

    $$(\%) = \frac{41,91 - 41,64}{41,91 - 36,90} \times 100\%$$

    $$= 0,64\%$$

    c. Sampel 3

    m1 = 30,29

    m2 = 35,29

    m3 = 34,83

    $$(\%) = \frac{m_2 - m_3}{m_2 - m_1} \times 100\%$$

    $$(\%) = \frac{35,29 - 34,83}{35,29 - 30,29} \times 100\%$$

$$= 1{,}32\ \%$$

d. Sampel 4

m1 = 43

m2 = 48,01

m3 = 47,05

$$(\%) = \frac{m_2 - m_3}{m_2 - m_1} \times 100\ \%$$

$$(\%) = \frac{48{,}01 - 47{,}05}{48{,}01 - 43} \times 100\ \%$$

$$= 1{,}99\ \%$$

e. Sampel 5

m1 = 27,76

m2 = 32,76

m3 = 31,75

$$(\%) = \frac{m_2 - m_3}{m_2 - m_1} \times 100\ \%$$

$$(\%) = \frac{32{,}76 - 31{,}75}{31{,}75 - 27{,}76} \times 100\ \%$$

$$= 3{,}08\ \%$$

Keterangan :

m1 = massa botol timbang dan tutup (gram)

m2 = massa botol timbang + tutup + sampel sebelum pemanasan (gram)

m3 = massa botol timbang + tutup + sampel setelah pemanasan (gram)

2. **Kadar Abu**

a. Sampel 1

m1 = 44,98

m2 = 27,98

m3 = 22,86

$$(\%) = \frac{m3 - m1}{m2 - m1} \text{ x } 100\%$$

$$(\%) = \frac{22,86 - 44,98}{27,98 - 44,98} \text{ x } 100\%$$

$$= 8,98 \%$$

b. Sampel 2

m1 = 27,75

m2 = 28,75

m3 = 27,83

$$(\%) = \frac{m3 - m1}{m2 - m1} \text{ x } 100\%$$

$$(\%) = \frac{27,83 - 27,75}{28,75 - 27,75} \text{ x } 100\%$$

$$= 7,91 \%$$

c. Sampel 3

m1 = 22,86

m2 = 23,91

m3 = 22,94

$$(\%) = \frac{m3 - m1}{m2 - m1} \text{ x } 100\%$$

$$(\%) = \frac{22,91 - 22,86}{23,91 - 22,86} \text{ x } 100\%$$

$$= 7,59 \%$$

d. Sampel 4

m1 = 21,78

m2 = 22,80

m3 = 13,95

$$(\%) = \frac{m3 - m1}{m2 - m1} \times 100\%$$

$$(\%) = \frac{13{,}95 - 21{,}78}{22{,}80 - 21{,}78} \times 100\%$$

$$= 6{,}97 \%$$

e. Sampel 5

m1 = 13,88

m2 = 14,97

m3 = 13,95

$$(\%) = \frac{m3 - m1}{m2 - m1} \times 100\%$$

$$(\%) = \frac{13{,}95 - 13{,}88}{14{,}97 - 13{,}88} \times 100\%$$

$$= 5{.}98 \%$$

Keterangan:

m1 = berat cawan kosong (gram)

m2 = berat cawan dengan sampel (gram)

m3 = berat cawan ditambah abu (gram)

3. Nilai Karbon Tetap

a. Sampel 1

IM = 0,89

AC = 8,98

VM = 32,37

FC = 100% - (IM + AC + VM)

$\quad$ = 100% - (0,89 + 8,98 + 32,37)

$\quad$ = 57,74 %

b. Sampel 2

IM = 0,63

AC = 7,91

VM = 32,03

FC = 100% - (IM + AC + VM)

     = 100% - (0,63 + 7,91 + 32,03)

     = 59,41 %

c. Sampel 3

IM = 1,32

AC = 7,50

VM = 33,25

FC = 100% - (IM + AC + VM)

     = 100% - (1,32 + 7,50 + 33,25)

     = 57,92 %

d. Sampel 4

IM = 1,98

AC = 6,97

VM = 38,53

FC = 100% - (IM + AC + VM)

     = 100% - (1,98 + 6,97 + 38,53)

     = 52,50 %

e. Sampel 5

IM = 3,07

AC = 5,98

VM = 38,87

FC = 100% - (IM + AC + VM)

     = 100% - (3,07 + 5,98 + 38,87)

     = 52,07 %

Keterangan :

FC = kadar karbon padat

IM = kadar air lembab

AC = kadar abu

VM = kadar zat terbang