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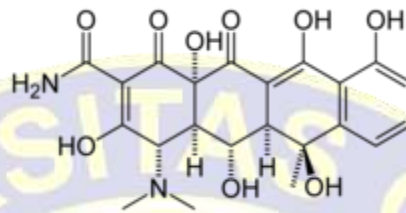
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## LAMPIRAN 1

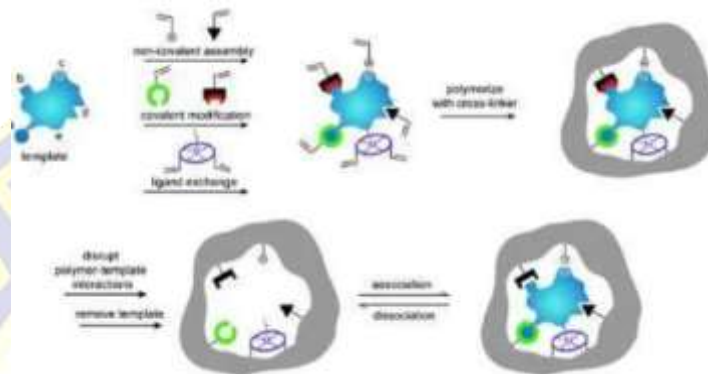
### STRUKTUR OKSITETRASIKLIN



**Gambar II.1** Struktur Oksitetrasiklin

## LAMPIRAN 2

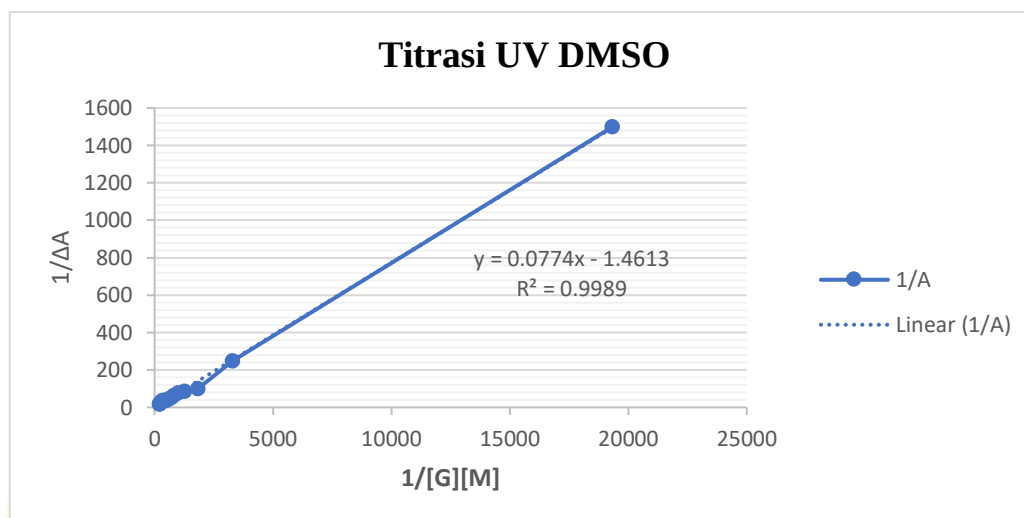
**GAMBARAN SKEMATIK PROSES PEMBENTUKAN MOLEKULER IMPRINTING**



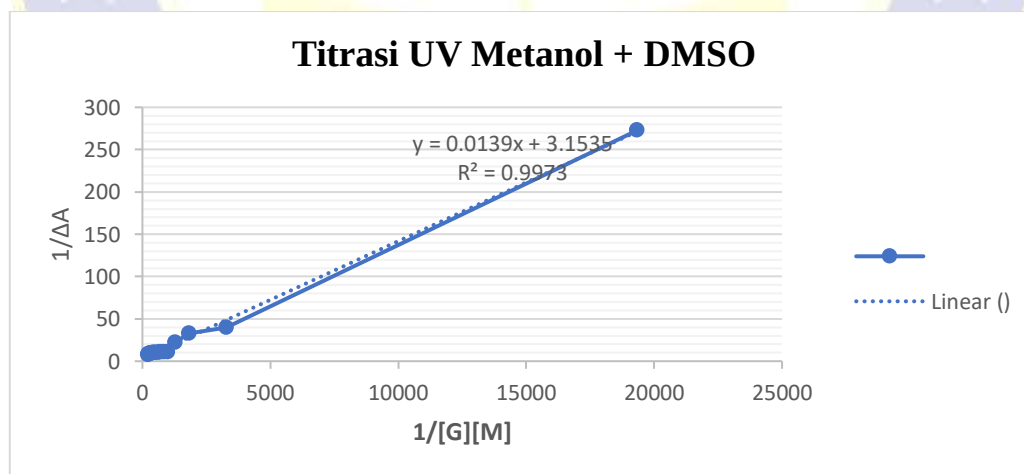
**Gambar II.2** Gambaran skematik proses pembentukan molekuler imprinting

## LAMPIRAN 3

## GRAFIK TITRASI UV TEMPLATE-MONOMER DALAM BERBAGAI PELARUT

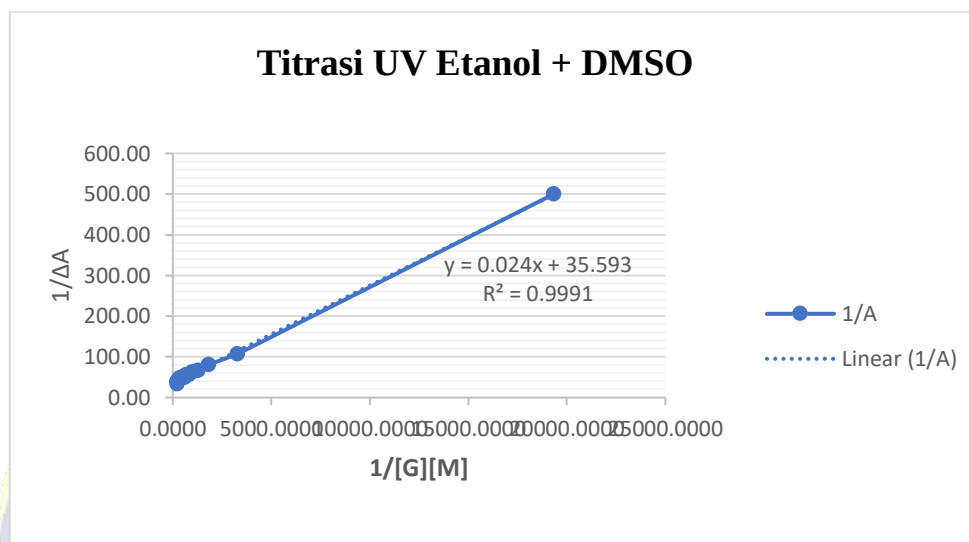


**Gambar V.1** Konstanta Asosiasi Interaksi Template-Monomer dengan Pelarut DMSO

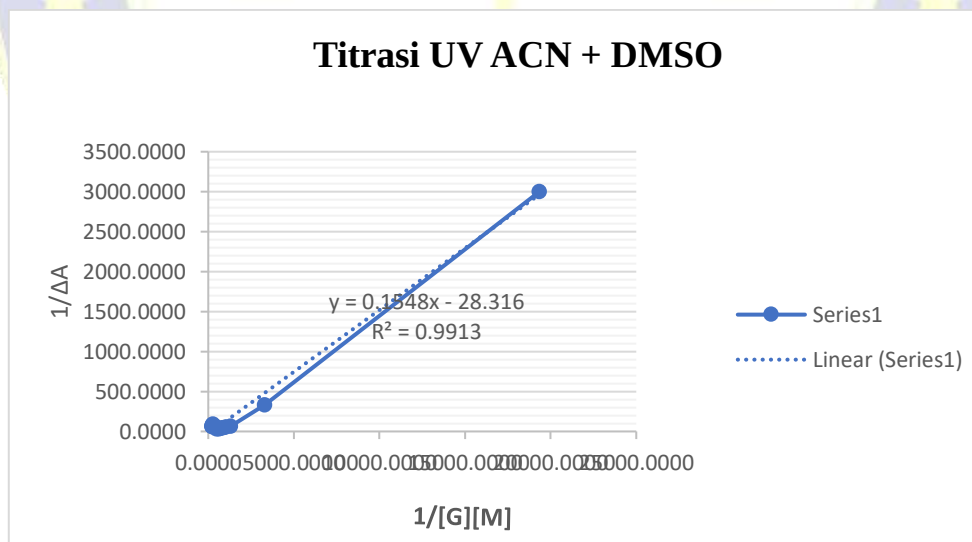


**Gambar V.2** Konstanta Asosiasi Interaksi Template-Monomer dengan Pelarut Metanol:DMSO

### LAMPIRAN 3 (LANJUTAN)



**Gambar V.3** Konstanta Asosisasi Interaksi Template-Monomer dengan Pelarut Etanol:DMSO



**Gambar V.4** Konstanta Asosisasi Interaksi Template-Monomer dengan Pelarut ACN:DMSO

## LAMPIRAN 4

## TABEL HASIL PERHITUNGAN KONSTANTA ASOSIASI

Tabel V.1

Data Nilai Konstanta Asosiasi (Ka) Oksitetrasiklin - Asam Metakrilat

| No | Pelarut                      | Nilai Konstanta<br>sosiasi           | Persamaan Regresi                        |
|----|------------------------------|--------------------------------------|------------------------------------------|
| 1  | Dimetil Sulfoksida<br>(DMSO) | $18 \times 10^1 \text{ M}^{-1}$      | $y = 0,0774x - 1,4613$<br>$R^2 = 0,9989$ |
| 2  | Metanol – DMSO               | $227 \times 10^2 \text{ M}^{-1}$     | $y = 0,0139x + 3,1535$<br>$R^2 = 0,9973$ |
| 3  | Etanol – DMSO                | $1483 \times 10^{-3} \text{ M}^{-1}$ | $y = 0,1548x - 28,316$<br>$R^2 = 0,9913$ |
| 4  | Asetonitril (ACN)<br>– DMSO  | $183 \times 10^{-2} \text{ M}^{-1}$  | $y = 0,024x + 35,593$<br>$R^2 = 0,9991$  |

# LAMPIRAN 5

## DATA KONSTANTA ASOSIASI OKSITETRASIKLIN-ASAM METAKRILAT

**Tabel VI.1**  
Data Titrasi UV Oksitetrasiklin-Asam Metakrilat

|                |                 | <b>MW</b> | <b>C<sub>initial</sub> (M)</b> | <b>V<sub>Sample</sub> (mL)</b> | <b>m<sub>To be weighed</sub> (g)</b> | <b>m<sub>Actual weight</sub> (g)</b> | <b>C (M)</b> | <b>V<sub>dilution</sub>(mL)</b> | <b>C<sub>actual</sub> (M)</b> |
|----------------|-----------------|-----------|--------------------------------|--------------------------------|--------------------------------------|--------------------------------------|--------------|---------------------------------|-------------------------------|
| Host (H)       | Oksitetrasiklin | 460,43    | 0,005                          | 10                             | 0,023022                             | 0,0044                               | 0,00096      | 0,020                           | 0,000002                      |
| Guest (G)      | Asam metakrilat | 86,089    | 0,0043                         | 10                             | 0,003702                             | 0,0043                               | 0,00499      | /                               | 0,01298                       |
| Volume cuvette |                 |           | 2,5                            | mL                             |                                      |                                      |              |                                 |                               |

**LAMPIRAN 5  
(LANJUTAN)**

**Tabel VI.2**  
Data Titrasi UV Pelarut DMSO

| G (μL) | EQ       | A (AU) (270nm) | [G] (M)  | Abs A (AU) | 1/[G]       | 1/A         |
|--------|----------|----------------|----------|------------|-------------|-------------|
| 0      | 0,000    | 0,066          | 0,000000 | 0,000      | -           | -           |
| 10     | 25,857   | 0,066666667    | 0,000052 | 0,001      | 19337,44222 | 1500        |
| 60     | 152,109  | 0,07           | 0,000304 | 0,004      | 3287,108372 | 250         |
| 110    | 273,525  | 0,076          | 0,000547 | 0,010      | 1827,987113 | 100         |
| 160    | 390,376  | 0,077666667    | 0,000781 | 0,012      | 1280,816641 | 85,71428571 |
| 210    | 502,915  | 0,079          | 0,001006 | 0,013      | 994,2035366 | 76,92307692 |
| 260    | 611,377  | 0,082          | 0,001223 | 0,016      | 817,8262416 | 62,5        |
| 310    | 715,979  | 0,085          | 0,001432 | 0,019      | 698,3448482 | 52,63157895 |
| 360    | 816,923  | 0,088          | 0,001634 | 0,022      | 612,0527307 | 45,45454545 |
| 460    | 1008,581 | 0,0925         | 0,002017 | 0,027      | 495,7459637 | 37,73584906 |
| 660    | 1355,506 | 0,093          | 0,002711 | 0,027      | 368,8658542 | 37,03703704 |
| 760    | 1513,006 | 0,095333333    | 0,003026 | 0,029      | 330,4679264 | 34,09090909 |
| 860    | 1661,131 | 0,098          | 0,003322 | 0,032      | 300,9997492 | 31,25       |
| 960    | 1800,694 | 0,105          | 0,003601 | 0,039      | 277,6707756 | 25,64102564 |
| 1060   | 1932,416 | 0,110333333    | 0,003865 | 0,044      | 258,7434951 | 22,55639098 |
| 1160   | 2056,940 | 0,112666667    | 0,004114 | 0,047      | 243,0795388 | 21,42857143 |
| 1260   | 2174,840 | 0,118          | 0,004350 | 0,052      | 229,9019248 | 19,23076923 |
| 1360   | 2286,632 | 0,121333333    | 0,004573 | 0,055      | 218,6621952 | 18,07228916 |

**LAMPIRAN 5  
(LANJUTAN)**

**Tabel VI.3**  
Data Absorbansi Pelarut DMSO

| <b>Absorban (270 nm)</b> |                          |                          |
|--------------------------|--------------------------|--------------------------|
| <b>Measurement<br/>1</b> | <b>Measurement<br/>2</b> | <b>Measurement<br/>3</b> |
| 0,068                    | 0,066                    | 0,064                    |
| 0,068                    | 0,067                    | 0,065                    |
| 0,069                    | 0,07                     | 0,071                    |
| 0,075                    | 0,077                    | 0,076                    |
| 0,077                    | 0,078                    | 0,078                    |
| 0,078                    | 0,079                    | 0,080                    |
| 0,081                    | 0,082                    | 0,083                    |
| 0,084                    | 0,086                    | 0,085                    |
| 0,088                    | 0,087                    | 0,089                    |
| 0,093                    | 0,092                    | 0,093                    |
| 0,094                    | 0,092                    | 0,093                    |
| 0,095                    | 0,096                    | 0,095                    |
| 0,099                    | 0,098                    | 0,097                    |
| 0,104                    | 0,105                    | 0,106                    |
| 0,109                    | 0,110                    | 0,112                    |
| 0,11                     | 0,113                    | 0,115                    |
| 0,118                    | 0,117                    | 0,119                    |
| 0,121                    | 0,12                     | 0,123                    |

**LAMPIRAN 5  
(LANJUTAN)**

**Tabel VI.4**

Data Titirasi UV Pelarut Metanol:DMSO

| G (μL) | EQ       | A (AU)<br>(270nm) | [G] (M)  | Abs A<br>(AU) | 1/[G]       | 1/A         |
|--------|----------|-------------------|----------|---------------|-------------|-------------|
| 0      | 0,000    | 0,050666667       | 0,000000 | 0,000         | -           | -           |
| 10     | 27,057   | 0,054333333       | 0,000052 | 0,004         | 19337,44222 | 272,7272727 |
| 60     | 159,172  | 0,075666667       | 0,000304 | 0,025         | 3287,108372 | 40          |
| 110    | 286,225  | 0,081333333       | 0,000547 | 0,031         | 1827,987113 | 32,60869565 |
| 160    | 408,502  | 0,096             | 0,000781 | 0,045         | 1280,816641 | 22,05882353 |
| 210    | 526,266  | 0,140666667       | 0,001006 | 0,090         | 994,2035366 | 11,11111111 |
| 260    | 639,764  | 0,141666667       | 0,001223 | 0,091         | 817,8262416 | 10,98901099 |
| 310    | 749,223  | 0,144333333       | 0,001432 | 0,094         | 698,3448482 | 10,67615658 |
| 360    | 854,854  | 0,146666667       | 0,001634 | 0,096         | 612,0527307 | 10,41666667 |
| 460    | 1055,411 | 0,151666667       | 0,002017 | 0,101         | 495,7459637 | 9,900990099 |
| 560    | 1242,860 | 0,152             | 0,002375 | 0,101         | 420,9773278 | 9,868421053 |
| 660    | 1418,445 | 0,154333333       | 0,002711 | 0,104         | 368,8658542 | 9,646302251 |
| 760    | 1583,258 | 0,156333333       | 0,003026 | 0,106         | 330,4679264 | 9,463722397 |
| 860    | 1738,260 | 0,16              | 0,003322 | 0,109         | 300,9997492 | 9,146341463 |
| 960    | 1884,303 | 0,163             | 0,003601 | 0,112         | 277,6707756 | 8,902077151 |
| 1060   | 2022,141 | 0,165             | 0,003865 | 0,114         | 258,7434951 | 8,746355685 |
| 1160   | 2152,447 | 0,169666667       | 0,004114 | 0,119         | 243,0795388 | 8,403361345 |
| 1260   | 2275,822 | 0,175             | 0,004350 | 0,124         | 229,9019248 | 8,042895442 |
| 1360   | 2392,805 | 0,177333333       | 0,004573 | 0,127         | 218,6621952 | 7,894736842 |

**LAMPIRAN 5  
(LANJUTAN)**

**Tabel VI.5**  
Data Absorbansi Metanol:DMSO

| <b>Absorban (270 nm)</b> |                          |                          |
|--------------------------|--------------------------|--------------------------|
| <b>Measurement<br/>1</b> | <b>Measurement<br/>2</b> | <b>Measurement<br/>3</b> |
| 0,049                    | 0,051                    | 0,052                    |
| 0,056                    | 0,054                    | 0,053                    |
| 0,071                    | 0,077                    | 0,079                    |
| 0,08                     | 0,081                    | 0,083                    |
| 0,095                    | 0,096                    | 0,097                    |
| 0,139                    | 0,141                    | 0,142                    |
| 0,14                     | 0,142                    | 0,143                    |
| 0,142                    | 0,145                    | 0,146                    |
| 0,143                    | 0,148                    | 0,149                    |
| 0,151                    | 0,153                    | 0,151                    |
| 0,151                    | 0,153                    | 0,152                    |
| 0,152                    | 0,154                    | 0,157                    |
| 0,154                    | 0,156                    | 0,159                    |
| 0,159                    | 0,16                     | 0,161                    |
| 0,162                    | 0,163                    | 0,164                    |
| 0,164                    | 0,165                    | 0,166                    |
| 0,168                    | 0,17                     | 0,171                    |
| 0,174                    | 0,175                    | 0,176                    |
| 0,176                    | 0,177                    | 0,179                    |

**LAMPIRAN 5  
(LANJUTAN)**

**Tabel VI.6**

Data Titrasi UV Pelarut Etanol:DMSO

| G (μL) | EQ       | A (AU)<br>(270nm) | [G] (M)  | Abs A<br>(AU) | 1/[G]       | 1/A      |
|--------|----------|-------------------|----------|---------------|-------------|----------|
| 0      | 0,000    | 0,254             | 0,000000 | 0,000         | -           | -        |
| 10     | 27,057   | 0,256             | 0,000052 | 0,002         | 19337,44222 | 500,0000 |
| 60     | 159,172  | 0,263333333       | 0,000304 | 0,009         | 3287,108372 | 107,1429 |
| 110    | 286,225  | 0,266333333       | 0,000547 | 0,012         | 1827,987113 | 81,0811  |
| 160    | 408,502  | 0,269             | 0,000781 | 0,015         | 1280,816641 | 66,6667  |
| 210    | 526,266  | 0,27              | 0,001006 | 0,016         | 994,2035366 | 62,5000  |
| 260    | 639,764  | 0,271666667       | 0,001223 | 0,018         | 817,8262416 | 56,6038  |
| 310    | 749,223  | 0,272             | 0,001432 | 0,018         | 698,3448482 | 55,5556  |
| 360    | 854,854  | 0,274             | 0,001634 | 0,020         | 612,0527307 | 50,0000  |
| 460    | 1055,411 | 0,273666667       | 0,002017 | 0,020         | 495,7459637 | 50,8475  |
| 560    | 1242,860 | 0,275333333       | 0,002375 | 0,021         | 420,9773278 | 46,8750  |
| 660    | 1418,445 | 0,275             | 0,002711 | 0,021         | 368,8658542 | 47,6190  |
| 760    | 1583,258 | 0,275666667       | 0,003026 | 0,022         | 330,4679264 | 46,1538  |
| 860    | 1738,260 | 0,277             | 0,003322 | 0,023         | 300,9997492 | 43,4783  |
| 960    | 1884,303 | 0,277             | 0,003601 | 0,023         | 277,6707756 | 43,4783  |
| 1060   | 2022,141 | 0,279666667       | 0,003865 | 0,026         | 258,7434951 | 38,9610  |
| 1160   | 2152,447 | 0,279666667       | 0,004114 | 0,026         | 243,0795388 | 38,9610  |
| 1260   | 2275,822 | 0,28              | 0,004350 | 0,026         | 229,9019248 | 38,4615  |
| 1360   | 2392,805 | 0,283666667       | 0,004573 | 0,030         | 218,6621952 | 33,7079  |

**LAMPIRAN 5  
(LANJUTAN)**

**Tabel VI.7**  
Data Absorbansi Pelarut Etanol:DMSO

| Absorban (270 nm) |                  |                  |
|-------------------|------------------|------------------|
| Measurement<br>1  | Measurement<br>2 | Measurement<br>3 |
| 0,254             | 0,253            | 0,255            |
| 0,259             | 0,255            | 0,254            |
| 0,265             | 0,262            | 0,263            |
| 0,267             | 0,266            | 0,266            |
| 0,267             | 0,269            | 0,271            |
| 0,272             | 0,27             | 0,268            |
| 0,274             | 0,271            | 0,27             |
| 0,274             | 0,272            | 0,27             |
| 0,275             | 0,273            | 0,274            |
| 0,275             | 0,273            | 0,273            |
| 0,273             | 0,275            | 0,278            |
| 0,274             | 0,275            | 0,276            |
| 0,275             | 0,276            | 0,276            |
| 0,276             | 0,277            | 0,278            |
| 0,278             | 0,276            | 0,277            |
| 0,278             | 0,28             | 0,281            |
| 0,28              | 0,279            | 0,28             |
| 0,281             | 0,279            | 0,28             |
| 0,282             | 0,284            | 0,285            |

**LAMPIRAN 5  
(LANJUTAN)**

**Tabel VI.8**

Data Titration UV Solvent ACN:DMSO

| G (μL) | EQ       | A (AU)<br>(270nm) | [G] (M)  | Abs A<br>(AU) | 1/[G]      | 1/A       |
|--------|----------|-------------------|----------|---------------|------------|-----------|
| 0      | 0,000    | 0,172             | 0,000000 | 0,000         | -          | -         |
| 10     | 27,057   | 0,172333333       | 0,000052 | 0,000         | 19337,4422 | 3000,0000 |
| 60     | 159,172  | 0,175             | 0,000304 | 0,003         | 3287,1084  | 333,3333  |
| 160    | 408,502  | 0,187             | 0,000781 | 0,015         | 1280,8166  | 66,6667   |
| 210    | 526,266  | 0,193             | 0,001006 | 0,021         | 994,2035   | 47,6190   |
| 260    | 639,764  | 0,195             | 0,001223 | 0,023         | 817,8262   | 43,4783   |
| 310    | 749,223  | 0,200666667       | 0,001432 | 0,029         | 698,3448   | 34,8837   |
| 360    | 854,854  | 0,202             | 0,001634 | 0,030         | 612,0527   | 33,3333   |
| 460    | 1055,411 | 0,203             | 0,002017 | 0,031         | 495,7460   | 32,2581   |
| 560    | 1242,860 | 0,193             | 0,002375 | 0,021         | 420,9773   | 47,6190   |
| 660    | 1418,445 | 0,186333333       | 0,002711 | 0,014         | 368,8659   | 69,7674   |
| 760    | 1583,258 | 0,188             | 0,003026 | 0,016         | 330,4679   | 62,5000   |
| 860    | 1738,260 | 0,187333333       | 0,003322 | 0,015         | 300,9997   | 65,2174   |
| 960    | 1884,303 | 0,187             | 0,003601 | 0,015         | 277,6708   | 66,6667   |
| 1060   | 2022,141 | 0,183             | 0,003865 | 0,011         | 258,7435   | 90,9091   |
| 1160   | 2152,447 | 0,19              | 0,004114 | 0,018         | 243,0795   | 55,5556   |
| 1260   | 2275,822 | 0,185             | 0,004350 | 0,013         | 229,9019   | 76,9231   |
| 1360   | 2392,805 | 0,188             | 0,004573 | 0,016         | 218,6622   | 62,5000   |

**LAMPIRAN 5  
(LANJUTAN)**

**Tabel VI.9**  
Data Absorbansi Pelarut ACN:DMSO

| Absorban (270 nm) |                  |                  |
|-------------------|------------------|------------------|
| Measurement<br>1  | Measurement<br>2 | Measurement<br>3 |
| 0,171             | 0,172            | 0,173            |
| 0,171             | 0,172            | 0,174            |
| 0,174             | 0,175            | 0,176            |
| 0,186             | 0,187            | 0,188            |
| 0,192             | 0,193            | 0,194            |
| 0,194             | 0,195            | 0,196            |
| 0,199             | 0,201            | 0,202            |
| 0,201             | 0,202            | 0,203            |
| 0,202             | 0,203            | 0,204            |
| 0,192             | 0,194            | 0,196            |
| 0,185             | 0,186            | 0,188            |
| 0,186             | 0,188            | 0,190            |
| 0,187             | 0,187            | 0,188            |
| 0,180             | 0,181            | 0,200            |
| 0,172             | 0,174            | 0,203            |
| 0,160             | 0,206            | 0,204            |
| 0,151             | 0,203            | 0,201            |
| 0,152             | 0,207            | 0,205            |

## LAMPIRAN 6

### PERHITUNGAN KONSTANTA ASOSIASI DENGAN PERSAMAAN BENESI-HILDEBRAND

#### ➤ Pelarut DMSO

$$\frac{1}{\Delta Y} = \frac{1}{Y \Delta H G K_a [G]} + \frac{1}{Y \Delta H G}$$

Persamaan garis  $y = 0,0774x - 1,4613$

$$\text{Slope} = \frac{1}{Y \Delta H G K_a}$$

$$K_a = \left( \frac{1}{Y \Delta H G} \right) / \text{slope}$$

$$K_a = \frac{1,4613}{0,0774}$$

$$K_a = 18,88 \text{ M}^{-1}$$

#### ➤ Pelarut Metanol : DMSO

$$\frac{1}{\Delta Y} = \frac{1}{Y \Delta H G K_a [G]} + \frac{1}{Y \Delta H G}$$

Persamaan garis  $y = 0,0139x + 3,1535$

$$\text{Slope} = \frac{1}{Y \Delta H G K_a}$$

$$K_a = \left( \frac{1}{Y \Delta H G} \right) / \text{slope}$$

$$K_a = \frac{3,1535}{0,0139}$$

$$K_a = 226,87 \text{ M}^{-1}$$

## LAMPIRAN 6 (LANJUTAN)

### ➤ **Pelarut Etanol : DMSO**

$$\frac{1}{\Delta Y} = \frac{1}{Y \Delta H G K_a [G]} + \frac{1}{Y \Delta H G}$$

Persamaan garis  $y = 0,024x + 35,593$

$$\text{Slope} = \frac{1}{Y \Delta H G K_a}$$

$$K_a = \left( \frac{1}{Y \Delta H G} \right) / \text{slope}$$

$$K_a = \frac{35,593}{0,024}$$

$$K_a = 1483,04 \text{ M}^{-1}$$

### ➤ **Pelarut Acetonitril : DMSO**

$$\frac{1}{\Delta Y} = \frac{1}{Y \Delta H G K_a [G]} + \frac{1}{Y \Delta H G}$$

Persamaan garis  $y = 0,1548x - 28,316$

$$\text{Slope} = \frac{1}{Y \Delta H G K_a}$$

$$K_a = \left( \frac{1}{Y \Delta H G} \right) / \text{slope}$$

$$K_a = \frac{28,316}{0,1548}$$

$$K_a = 182,92 \text{ M}^{-1}$$

## DAFTAR RIWAYAT HIDUP

### I. IDENTITAS DIRI

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### II. RIWAYAT PENDIDIKAN

| Jenjang Pendidikan | Sekolah/Perguruan<br>Tinggi | Tahun Masuk | Tahun Lulus |
|--------------------|-----------------------------|-------------|-------------|
| SD/MI              | SDN Lemahmukti 1            | 2006        | 2012        |
| SMP/MTS            | SMPN 1 Lemahabang           | 2012        | 2015        |
| SMA/MA/SMK         | SMAN 2 Tanjungpandan        | 2015        | 2018        |
| Perguruan Tinggi   | Universitas Garut           | 2018        | 2022        |