

**LAMPIRAN A**  
**PERHITUNGAN NILAI PKA**  
**ASAM 4-(TRIFLUOROMETOKSI)BENZOIL SALISILAT DENGAN**  
**KONSENTRASI METANOL 6 %**

pH	Serapan	PKa	pKa rata-rata
1,8	1,152		
3,8	1,130	3,97	
4,8	1,120	4,66	4,75
5,8	1,120	5,66	
7,8	1,097		

$$pKa = pH - \log \frac{A_{HA} - A_{obs}}{A_{obs} - A_{A^-}}$$

$$pKa = 3,8 - \log \frac{1,152 - 1,130}{1,130 - 1,097} = 3,97$$

$$pKa = 4,8 - \log \frac{1,152 - 1,120}{1,120 - 1,097} = 4,66$$

$$pKa = 5,8 - \log \frac{1,152 - 1,120}{1,120 - 1,097} = 5,66$$

$$pKa \text{ rata-rata} = \frac{(pKa_{pH3,8} + pKa_{pH4,8} + pKa_{pH5,8})}{3}$$

$$= \frac{(3,97 + 4,66 + 5,66)}{3} = 4,75$$

**LAMPIRAN B**  
**PERHITUNGAN NILAI pKA**  
**ASAM 4-(TRIFLUOROMETOKSI)BENZOIL SALISILAT DALAM**  
**PELARUT AIR**

Replikasi	pKa
I	4,635
II	4,605
III	4,481
n = 3	$\bar{x} = 4,57$ SD = 0,08 KV = 1,75%

$$\bar{x} = \frac{\text{replikasi1} + \text{replikasi2} + \text{replikasi3}}{n}$$

$$\bar{x} = \frac{4,635 + 4,605 + 4,481}{3}$$

$$\bar{x} = 4,57$$

$$SD = \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n-1}}$$

$$SD = \sqrt{\frac{(4,635^2 + 4,605^2 + 4,481^2) - \frac{(4,635 + 4,605 + 4,481)^2}{3}}{3-1}}$$

$$SD = 0,08$$

$$KV = \frac{SD}{\bar{x}} \times 100 \%$$

$$KV = \frac{0,08}{4,57} \times 100 \% = 1,75 \%$$

**LAMPIRAN C**  
**PERHITUNGAN DERAJAT ABSORBSI**  
**ASAM 4-(TRIFLUOROMETOKSI)BENZOIL SALISILAT**

$$\text{PH usus} = 6,4$$

$$\text{PH lambung} = 3,4$$

$$\text{PH darah} = 7,4$$

$$\begin{aligned} \text{U darah} &= 10^{4,57-7,4} = \text{ID} = \frac{1}{\text{B}} \text{UD} \\ &= \frac{1}{0,001479} \\ &= 676,13 \end{aligned}$$

$$\text{U usus} = 10^{4,57-6,4} = 0,01479$$

$$\text{U lambung} = 10^{4,57-3,4} = 14$$

$$\text{D usus} = \frac{\text{IB} + \text{UB}}{\text{IU} + \text{Uu}} = \frac{\left(\frac{1}{\text{B}}\text{UB}\right) + \text{Ublood}}{\left(\frac{1}{\text{A}}\right) + \text{Uusus}} = 0,014$$

$$\text{D lambung} = \frac{\text{IB} + \text{UB}}{\text{IL} + \text{UL}} = \frac{\left(\frac{1}{\text{B}}\text{UB}\right) + \text{Ublood}}{\left(\frac{1}{\text{A}}\right) + \text{Ulambung}} = 14$$

LAMPIRAN D

TABEL UJI R

DEGREES OF FREEDOM (DF)	5 PERCENT	1 PERCENT	DEGREES OF FREEDOM (DF)	5 PERCENT	1 PERCENT
1	.997	.1000	24	.388	.496
2	.950	.990	25	.381	.487
3	.878	.959	26	.374	.478
4	.811	.917	27	.367	.470
5	.754	.874	28	.361	.463
6	.707	.834	29	.355	.456
7	.666	.798	30	.349	.449
8	.632	.765	35	.325	.418
9	.602	.735	40	.304	.393
10	.576	.708	48	.288	.372
11	.553	.684	50	.273	.354
12	.532	.661	60	.250	.325
13	.514	.641	70	.232	.302
14	.497	.623	80	.217	.283
15	.482	.606	90	.205	.267
16	.468	.590	100	.195	.254
17	.456	.575	125	.174	.228
18	.444	.561	150	.159	.208
19	.433	.549	200	.138	.181
20	.423	.537	300	.113	.148
21	.413	.526	400	.098	.128
22	.404	.515	500	.088	.115
23	.396	.505	1000	.062	.081

Sumber: Soedigdo & Soedigdo (1977).