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LAMPIRAN

Lampiran 1. Formulasi Sabun Cair

1. Faktor A : Kombinasi minyak kelapa, minyak jarak dan minyak kedelai dengan 3 taraf perlakuan yaitu :

$$A1 = 70\% : 10\% : 20\%$$

$$A2 = 20\% : 10\% : 70\%$$

$$A3 = 30\% : 20\% : 50\%$$

2. Faktor B : Kombinasi KOH dan NaOH dengan 3 taraf perlakuan yaitu :

$$B1 = 90\% : 10\%$$

$$B2 = 80\% : 20\%$$

$$B3 = 70\% : 30\%$$

Bahan	Formulasi (gr)								
	A1B1	A1B2	A1B3	A2B1	A2B2	A2B3	A3B1	A3B2	A3B3
M. Kelapa	105	105	105	30	30	30	45	45	45
M. Jarak	15	15	15	15	15	15	30	30	30
M. Kedelai	30	30	30	105	105	105	75	75	75
KOH	34,7	30,9	27	29,9	26,5	23,2	30,7	27,3	23,8
NaOH	2,5	4,9	7,4	2,1	4,3	6,4	2,2	4,4	6,6
Sukrosa	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5
Gliserin	74,4	71,6	68,8	64	61,6	59,2	65,8	63,4	60,8
Sodium Laktat	15	15	15	15	15	15	15	15	15
Aquades	37,2	35,8	34,4	32	30,8	29,6	32,9	31,7	30,4
Pengenceran	280,8	278,7	276,6	273	271,2	269,4	274,35	272,55	270,6

Lampiran 2. Prosedur Analisis Sabun Cair

1. pH

Pengujian pH sediaan dilakukan dengan alat pH meter. Kalibrasi pH meter menggunakan larutan standar buffer yang berfungsi untuk menjaga keakuratan dalam pengukuran. Elektroda dibilas dengan air suling dan dikeringkan dengan tisu. Sediaan sabun ditimbang sebanyak 1 gram, diencerkan dengan aquades sampai 10 ml. Celupkan elektroda ke dalam larutan uji sambil diaduk kemudian catat hasil pembacaan pH pada pH meter.

2. Alkali Bebas

Panaskan filtrat dari penentuan bahan tak larut dalam alkohol, saat hampir mendidih masukkan 0,5 ml indikator PP 1%, jika larutan bersifat asam (penunjuk penoftlaein tidak bewarna) titrasi dengan larutan standar KOH sampai timbul warna merah muda yang stabil, jika larutan bersifat alkali (penunjuk penoftalein bewarna merah) titrasi dengan larutan standar HCl sampai warna merah tepat hilang. Hitung menjadi NaOH jika alkali atau asam oleat jika asam.

3. Stabilitas Busa

Sampel ditimbang sebanyak 1 gr, dimasukkan ke dalam tabung reaksi, ditambahkan aquades sampai 10 ml, dikocok dengan membolak-balikan tabung reaksi selama 5 detik, lalu ukur tinggi busa yang dihasilkan. Tabung didiamkan selama 5 menit, ukur kembali tinggi busa yang dihasilkan setelah 5 menit (Pradipto, 2009).

4. Bobot Jenis/Densitas

Dengan memasukkan sediaan ke dalam piknometer sampai di atas garis tera. Ditutup, kemudian dimasukkan piknometer ke dalam rendaman air es sampai suhu 25°C. Permukaan air es harus lebih tinggi dari permukaan contoh dalam piknometer, sehingga semua isi piknometer terendam. Biarkan piknometer terendam selama 30 menit kemudian buka tutup piknometer dan bersihkan bagian luar piknometer dengan gulungan kertas saring sampai tanda garis.

5. Uji Organoleptik

Uji penampilan dilakukan dengan melihat secara langsung warna, busa, kelembutan, kekentalan dan aroma sabun cair.

Lampiran 3. Formulir Uji Organoleptik Sabun Cair

FORMULIR UJI ORGANOLEPTIK																									
Nama Panelis :																									
Usia :																									
Tanggal :																									
Sampel : SABUN CAIR																									
<p>Intruksi : Berikan penilaian/tingkat kesukaan anda terhadap warna, banyak busa, kelembutan, kekentalan serta kesan kesat anda setelah pemakaian sabun. Penilaian berdasarkan kriteria sebagai berikut :</p> <p>5 = Sangat suka</p> <p>4 = Suka</p> <p>3 = Netral</p> <p>2 = Tidak suka</p> <p>1 = Sangat tidak suka</p>																									
Kode Sampel	Warna	Busa	Kelembutan	Kekentalan	Aroma																				
119																									
634																									
128																									
824																									
316																									
967																									
249																									
293																									
781																									
<p>Berdasarkan penilaian anda secara umum, urutkan sabun cair yang paling disukai menurut kode :</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Rangking</th> <th style="width: 50%;">Kode</th> </tr> </thead> <tbody> <tr><td>1</td><td></td></tr> <tr><td>2</td><td></td></tr> <tr><td>3</td><td></td></tr> <tr><td>4</td><td></td></tr> <tr><td>5</td><td></td></tr> <tr><td>6</td><td></td></tr> <tr><td>7</td><td></td></tr> <tr><td>8</td><td></td></tr> <tr><td>9</td><td></td></tr> </tbody> </table>						Rangking	Kode	1		2		3		4		5		6		7		8		9	
Rangking	Kode																								
1																									
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<p>Atas partisipasi dan bantuan anda, saya ucapkan terimakasih.</p>																									

Lampiran 4. Hasil Uji pH

Sampel	pH		Rata-Rata
	U1	U2	
A1B1	8.69	8.65	8.67
A1B2	8.07	8.34	8.20
A1B3	8.24	7.90	8.07
A2B1	7.57	8.20	7.88
A2B2	8.20	8.33	8.26
A2B3	8.73	8.23	8.48
A3B1	7.71	8.04	7.87
A3B2	8.28	7.98	8.13
A3B3	7.90	8.04	7.97

Lampiran 5. Data SPSS Uji pH

Descriptive Statistics

Dependent Variable: pH

Kombinasi Minyak	Kombinasi Basa	Mean	Std. Deviation	N
A1	B1	8.6700	.02828	2
	B2	8.2025	.19445	2
	B3	8.0700	.24042	2
	Total	8.3142	.31427	6
A2	B1	7.8800	.44548	2
	B2	8.2625	.08839	2
	B3	8.4750	.35355	2
	Total	8.2058	.37281	6
A3	B1	7.8700	.23335	2
	B2	8.1275	.20860	2
	B3	7.9675	.10253	2
	Total	7.9883	.18766	6
Total	B1	8.1400	.46829	6
	B2	8.1975	.14659	6
	B3	8.1708	.31028	6
	Total	8.1694	.31579	18

Tests of Between-Subjects Effects

Dependent Variable: pH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.159 ^a	8	.145	2.432	.104
Intercept	1201.317	1	1201.317	20165.721	.000
Minyak	.330	2	.165	2.773	.115
Basa	.010	2	.005	.083	.921
Minyak * Basa	.819	4	.205	3.436	.057
Error	.536	9	.060		
Total	1203.012	18			
Corrected Total	1.695	17			

a. R Squared = ,684 (Adjusted R Squared = ,403)

Lampiran 6. Hasil Uji Alkali Bebas

Sampel	Alkali Bebas		Rata-Rata
	U1	U2	
A1B1	0.0031	0.0031	0.0031
A1B2	0.0038	0.0050	0.0044
A1B3	0.0033	0.0020	0.0027
A2B1	0.0041	0.0021	0.0031
A2B2	0.0040	0.0023	0.0032
A2B3	0.0035	0.0028	0.0032
A3B1	0.0036	0.0026	0.0031
A3B2	0.0037	0.0018	0.0028
A3B3	0.0030	0.0032	0.0031

Lampiran 7. Data SPSS Uji Alkali Bebas

Descriptive Statistics

Dependent Variable: Alkali Bebas

Kombinasi Minyak	Kombinasi Basa	Mean	Std. Deviation	N
A1	B1	.003100	.0000000	2
	B2	.004400	.0008485	2
	B3	.002650	.0009192	2
	Total	.003383	.0009867	6
A2	B1	.003100	.0014142	2
	B2	.003150	.0012021	2
	B3	.003150	.0004950	2
	Total	.003133	.0008595	6
A3	B1	.003100	.0007071	2
	B2	.002750	.0013435	2
	B3	.003100	.0001414	2
	Total	.002983	.0007055	6
Total	B1	.003100	.0007071	6
	B2	.003433	.0011776	6
	B3	.002967	.0005317	6
	Total	.003167	.0008239	18

Tests of Between-Subjects Effects

Dependent Variable: Alkali Bebas

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3.960E-6 ^a	8	4.950E-7	.588	.767
Intercept	.000	1	.000	214.314	.000
Minyak	4.900E-7	2	2.450E-7	.291	.754
Basa	6.933E-7	2	3.467E-7	.412	.674
Minyak * Basa	2.777E-6	4	6.942E-7	.824	.542
Error	7.580E-6	9	8.422E-7		
Total	.000	18			
Corrected Total	1.154E-5	17			

a. R Squared = ,343 (Adjusted R Squared = -,241)

Lampiran 8. Hasil Uji Stabilitas Busa

Sampel	Stabilitas Busa		Rata-Rata
	U1	U2	
A1B1	85	83	84
A1B2	85	87	86
A1B3	89	87	88
A2B1	95	89	92
A2B2	88	87	87.5
A2B3	91	87	89
A3B1	85	94	89.5
A3B2	82	85	83.5
A3B3	89	88	88.5

Lampiran 9. Data SPSS Uji Stabilitas Busa

Descriptive Statistics

Dependent Variable: Stabilitas Busa

Kombinasi Minyak	Kombinasi Basa	Mean	Std. Deviation	N
A1	B1	84.00	1.414	2
	B2	86.00	1.414	2
	B3	88.00	1.414	2
	Total	86.00	2.098	6
A2	B1	92.00	4.243	2
	B2	87.50	.707	2
	B3	89.00	2.828	2
	Total	89.50	3.082	6
A3	B1	89.50	6.364	2
	B2	83.50	2.121	2
	B3	88.50	.707	2
	Total	87.17	4.167	6
Total	B1	88.50	5.050	6
	B2	85.67	2.160	6
	B3	88.50	1.517	6
	Total	87.56	3.382	18

Tests of Between-Subjects Effects

Dependent Variable: Stabilitas Busa

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	116.444 ^a	8	14.556	1.679	.228
Intercept	137987.556	1	137987.556	15921.641	.000
Minyak	38.111	2	19.056	2.199	.167
Basa	32.111	2	16.056	1.853	.212
Minyak * Basa	46.222	4	11.556	1.333	.329
Error	78.000	9	8.667		
Total	138182.000	18			
Corrected Total	194.444	17			

a. R Squared = ,599 (Adjusted R Squared = ,242)

Lampiran 10. Hasil Uji Densitas

Sampel	Densitas		Rata-Rata
	U1	U2	
A1B1	1.0887	1.0818	1.0853
A1B2	1.0857	1.0843	1.0850
A1B3	1.0818	1.0860	1.0839
A2B1	1.0780	1.0788	1.0784
A2B2	1.0741	1.0760	1.0750
A2B3	1.0734	1.0705	1.0719
A3B1	1.0782	1.0836	1.0809
A3B2	1.0798	1.0820	1.0809
A3B3	1.0754	1.0775	1.0765

Lampiran 11. Data SPSS Uji Densitas

Descriptive Statistics

Dependent Variable: Densitas

Kombinasi Minyak	Kombinasi Basa	Mean	Std. Deviation	N
A1	B1	1.085250	.0048790	2
	B2	1.085000	.0009899	2
	B3	1.083900	.0029698	2
	Total	1.084717	.0026709	6
A2	B1	1.078400	.0005657	2
	B2	1.075050	.0013435	2
	B3	1.071950	.0020506	2
	Total	1.075133	.0030969	6
A3	B1	1.080900	.0038184	2
	B2	1.080900	.0015556	2
	B3	1.076450	.0014849	2
	Total	1.079417	.0030202	6
Total	B1	1.081517	.0041658	6
	B2	1.080317	.0045876	6
	B3	1.077433	.0056733	6
	Total	1.079756	.0048857	18

Tests of Between-Subjects Effects

Dependent Variable: Densitas

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.000 ^a	8	4.333E-5	6.594	.005
Intercept	20.986	1	20.986	3193629.924	.000
Minyak	.000	2	.000	21.043	.000
Basa	5.285E-5	2	2.643E-5	4.022	.057
Minyak * Basa	1.724E-5	4	4.309E-6	.656	.638
Error	5.914E-5	9	6.571E-6		
Total	20.986	18			
Corrected Total	.000	17			

a. R Squared = ,854 (Adjusted R Squared = ,725)

Densitas

Duncan^{a,b}

Kombinasi Minyak	N	Subset		
		1	2	3
A2	6	1.075133		
A3	6		1.079417	
A1	6			1.084717
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 6,57E-006.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Densitas

Duncan^{a,b}

Kombinasi Basa	N	Subset	
		1	2
B3	6	1.077433	
B2	6	1.080317	1.080317
B1	6		1.081517
Sig.		.083	.438

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 6,57E-006.

a. Uses Harmonic Mean Sample Size = 6,000.

b. Alpha = ,05.

Lampiran 12. Data Hasil Uji Hedonik Warna

Panelis	Hedonik Warna								
	A1B1	A1B2	A1B3	A2B1	A2B2	A2B3	A3B1	A3B2	A3B3
1	4	4	3	4	4	2	4	2	4
2	4	4	3	2	2	2	4	5	4
3	4	4	3	3	2	2	2	4	2
4	4	4	4	3	2	2	2	4	2
5	3	4	3	3	4	4	4	4	3
6	3	3	3	3	3	3	3	3	3
7	4	4	4	4	4	4	3	4	3
8	4	5	4	5	5	4	3	5	4
9	4	4	4	2	2	2	2	2	2
10	4	4	5	4	4	3	4	3	4
11	4	4	2	2	2	2	4	4	3
12	4	4	4	2	2	2	4	4	4
13	3	3	4	4	4	4	4	4	4
14	5	5	5	5	5	5	5	5	5
15	4	4	4	3	4	4	4	4	2
16	3	4	4	2	4	4	4	4	4
17	4	4	4	2	4	4	4	4	4
18	4	4	4	2	5	5	4	5	4
19	3	3	4	1	4	5	4	4	3
20	4	3	4	1	2	3	4	2	4
21	3	4	4	4	2	3	2	2	3
22	3	4	4	3	2	3	2	4	4
23	5	5	5	4	3	4	5	4	5
24	4	5	4	5	4	2	4	4	4
25	4	4	4	4	5	5	4	4	4
26	4	4	4	5	5	4	5	4	4
27	4	5	4	5	3	3	4	3	4
28	4	3	4	1	1	2	3	3	3
29	4	4	4	4	1	4	4	2	2
30	4	4	4	1	3	3	4	3	4
Total	115	120	116	93	97	99	109	109	105
Rata-Rata	3.8	4.0	3.9	3.1	3.2	3.3	3.6	3.6	3.5

Lampiran 13. Hasil Uji SPSS Hedonik Warna

Descriptive Statistics

Dependent Variable: Warna

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	Kombinasi KOH, NaOH	Mean	Std. Deviation	N
70:10:20	90:10	3.8333	.53067	30
	80:20	4.0000	.58722	30
	70:30	3.8667	.62881	30
	Total	3.9000	.58155	90
20:10:70	90:10	3.1000	1.32222	30
	80:20	3.2333	1.25075	30
	70:30	3.3000	1.05536	30
	Total	3.2111	1.20387	90
30:20:50	90:10	3.6333	.88992	30
	80:20	3.6333	.92786	30
	70:30	3.5000	.86103	30
	Total	3.5889	.88552	90
Total	90:10	3.5222	1.00814	90
	80:20	3.6222	1.00087	90
	70:30	3.5556	.88826	90
	Total	3.5667	.96462	270

Tests of Between-Subjects Effects

Dependent Variable: Warna

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	22.867 ^a	8	2.858	3.280	.001
Intercept	3434.700	1	3434.700	3941.624	.000
A	21.422	2	10.711	12.292	.000
B	.467	2	.233	.268	.765
A * B	.978	4	.244	.281	.890
Error	227.433	261	.871		
Total	3685.000	270			
Corrected Total	250.300	269			

a. R Squared = .091 (Adjusted R Squared = .064)

Warna

Duncan^{a,b}

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	N	Subset		
		1	2	3
20:10:70	90	3.2111		
30:20:50	90		3.5889	
70:10:20	90			3.9000
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .871.

a. Uses Harmonic Mean Sample Size = 90.000.

b. Alpha = .05.

Lampiran 14. Data Hasil Uji Hedonik Busa

Panelis	Hedonik Busa								
	A1B1	A1B2	A1B3	A2B1	A2B2	A2B3	A3B1	A3B2	A3B3
1	3	4	3	5	4	4	3	3	3
2	5	4	4	2	5	3	2	5	2
3	5	4	5	4	4	2	5	4	2
4	4	4	4	3	3	2	1	3	2
5	3	4	4	2	2	2	3	2	3
6	5	4	4	2	4	2	2	2	4
7	3	4	3	3	3	3	4	3	2
8	5	4	4	5	4	2	1	4	4
9	5	3	5	3	4	4	3	4	4
10	5	5	5	3	3	4	4	3	4
11	5	4	4	4	4	4	3	2	5
12	4	4	4	4	4	4	1	1	4
13	4	4	4	5	5	4	1	1	3
14	5	4	2	5	5	4	4	4	2
15	4	4	2	4	4	4	4	4	2
16	3	5	5	2	2	2	3	5	5
17	4	4	4	4	2	4	2	2	4
18	4	3	4	5	5	5	2	2	4
19	2	4	2	4	4	4	3	1	3
20	4	4	3	1	2	2	1	1	1
21	4	4	5	2	1	4	3	3	1
22	4	4	3	3	4	4	4	4	4
23	5	5	2	2	3	2	3	1	3
24	3	4	2	4	2	4	2	4	2
25	5	5	4	2	2	2	2	2	2
26	4	4	4	4	4	2	2	4	2
27	3	4	4	2	2	2	2	3	2
28	5	4	4	4	4	4	2	4	2
29	4	4	2	3	5	2	2	2	4
30	5	5	5	5	4	5	4	5	5
Total	124	123	110	101	104	96	78	88	90
Rata-Rata	4.1	4.1	3.7	3.4	3.5	3.2	2.6	2.9	3.0

Lampiran 15. Hasil Uji SPSS Hedonik Busa

Descriptive Statistics

Dependent Variable: Busa

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	Kombinasi KOH, NaOH	Mean	Std. Deviation	N
70:10:20	90:10	4.1333	.86037	30
	80:20	4.1000	.48066	30
	70:30	3.6667	1.02833	30
	Total	3.9667	.84068	90
20:10:70	90:10	3.3667	1.18855	30
	80:20	3.4667	1.13664	30
	70:30	3.2000	1.06350	30
	Total	3.3444	1.12341	90
30:20:50	90:10	2.6000	1.10172	30
	80:20	2.9333	1.28475	30
	70:30	3.0000	1.17444	30
	Total	2.8444	1.18900	90
Total	90:10	3.3667	1.22199	90
	80:20	3.5000	1.12430	90
	70:30	3.2889	1.11420	90
	Total	3.3852	1.15353	270

Tests of Between-Subjects Effects

Dependent Variable: Busa

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	64.807 ^a	8	8.101	7.213	.000
Intercept	3094.059	1	3094.059	2754.888	.000
A	56.896	2	28.448	25.330	.000
B	2.052	2	1.026	.913	.402
A * B	5.859	4	1.465	1.304	.269
Error	293.133	261	1.123		
Total	3452.000	270			
Corrected Total	357.941	269			

a. R Squared = .181 (Adjusted R Squared = .156)

Busa

Duncan^{a,b}

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	N	Subset		
		1	2	3
30:20:50	90	2.8444		
20:10:70	90		3.3444	
70:10:20	90			3.9667
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1.123.

a. Uses Harmonic Mean Sample Size = 90.000.

b. Alpha = .05.

Lampiran 16. Data Hasil Uji Hedonik Kelembutan

Panelis	Hedonik Kelembutan								
	A1B1	A1B2	A1B3	A2B1	A2B2	A2B3	A3B1	A3B2	A3B3
1	3	4	5	4	4	4	4	4	4
2	5	4	4	2	4	4	4	5	4
3	5	4	4	2	4	2	2	5	4
4	3	4	5	4	4	4	4	4	3
5	4	3	5	3	4	3	4	3	4
6	4	4	4	4	4	4	4	4	4
7	3	4	5	2	3	3	3	4	2
8	4	4	4	4	2	4	4	1	4
9	4	3	2	5	4	2	4	3	4
10	3	5	5	4	4	2	4	4	4
11	3	4	4	4	3	4	4	4	4
12	4	4	4	4	4	5	4	4	4
13	5	5	5	2	2	2	4	4	5
14	4	4	4	4	4	4	3	4	4
15	3	4	4	5	5	4	4	4	5
16	5	4	4	4	4	4	3	5	4
17	5	5	4	4	4	5	5	5	4
18	4	5	4	5	5	5	2	3	4
19	3	4	4	5	5	4	3	4	4
20	5	5	2	1	2	2	2	2	2
21	3	3	4	4	4	2	3	4	4
22	5	5	5	2	4	5	5	3	4
23	5	5	5	2	3	3	4	2	3
24	4	2	4	4	2	4	4	4	4
25	4	4	2	4	3	5	4	4	2
26	4	5	4	4	5	4	4	4	5
27	4	4	4	4	3	4	4	4	4
28	5	4	4	4	4	4	4	4	4
29	4	3	3	4	4	4	2	4	4
30	4	4	4	4	5	4	4	4	5
Total	121	122	121	108	112	110	109	113	116
Rata-Rata	4.0	4.1	4.0	3.6	3.7	3.7	3.6	3.8	3.9

Lampiran 17. Hasil Uji SPSS Hedonik Kelembutan

Descriptive Statistics

Dependent Variable: Kelembutan

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	Kombinasi KOH, NaOH	Mean	Std. Deviation	N
70:10:20	90:10	4.0333	.76489	30
	80:20	4.0667	.73968	30
	70:30	4.0333	.85029	30
	Total	4.0444	.77765	90
20:10:70	90:10	3.6000	1.06997	30
	80:20	3.7333	.90719	30
	70:30	3.6667	.99424	30
	Total	3.6667	.98300	90
30:20:50	90:10	3.6333	.80872	30
	80:20	3.7667	.89763	30
	70:30	3.8667	.77608	30
	Total	3.7556	.82532	90
Total	90:10	3.7556	.90332	90
	80:20	3.8556	.85540	90
	70:30	3.8556	.88128	90
	Total	3.8222	.87821	270

Tests of Between-Subjects Effects

Dependent Variable: Kelembutan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	8.133 ^a	8	1.017	1.331	.228
Intercept	3944.533	1	3944.533	5164.832	.000
A	7.022	2	3.511	4.597	.011
B	.600	2	.300	.393	.676
A * B	.511	4	.128	.167	.955
Error	199.333	261	.764		
Total	4152.000	270			
Corrected Total	207.467	269			

a. R Squared = .039 (Adjusted R Squared = .010)

Kelembutan

Duncan^{a,b}

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	N	Subset	
		1	2
20:10:70	90	3.6667	
30:20:50	90	3.7556	
70:10:20	90		4.0444
Sig.		.496	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .764.

a. Uses Harmonic Mean Sample Size = 90.000.

b. Alpha = ,05.

Kelembutan

Duncan^{a,b}

Kombinasi KOH, NaOH	N	Subset
		1
90:10	90	3.7556
70:30	90	3.8556
80:20	90	3.8556
Sig.		.474

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .764.

a. Uses Harmonic Mean Sample Size = 90.000.

b. Alpha = ,05.

Lampiran 18. Data Hasil Uji Hedonik Kekentalan

Panelis	Hedonik Kekentalan								
	A1B1	A1B2	A1B3	A2B1	A2B2	A2B3	A3B1	A3B2	A3B3
1	4	2	2	4	3	2	4	3	2
2	5	2	2	2	4	4	4	3	2
3	4	2	4	3	4	4	4	3	2
4	2	4	2	4	2	2	4	2	3
5	4	2	4	5	4	5	4	2	1
6	4	4	4	5	4	4	2	3	1
7	3	1	1	4	4	4	3	3	2
8	3	2	2	4	2	1	4	2	2
9	4	3	2	5	4	5	3	3	2
10	4	5	5	4	2	3	4	4	1
11	2	2	2	3	2	2	4	3	1
12	3	4	3	4	4	2	3	2	3
13	3	4	3	5	5	5	4	5	4
14	4	2	3	5	4	2	2	2	2
15	2	3	4	4	5	2	2	3	2
16	4	4	4	4	5	4	4	5	1
17	3	2	4	4	5	3	2	2	3
18	4	2	2	4	5	5	2	4	2
19	4	2	3	5	2	4	2	3	3
20	4	2	1	3	3	3	2	2	2
21	1	2	1	5	4	4	4	1	2
22	2	2	2	4	4	3	2	1	2
23	3	2	2	4	5	2	5	5	3
24	3	2	3	2	4	2	4	4	2
25	4	2	2	4	2	5	2	2	4
26	3	2	2	4	3	3	4	4	2
27	4	5	3	4	3	5	4	3	3
28	2	2	2	5	3	2	3	3	2
29	2	2	4	4	3	2	2	4	4
30	3	3	3	4	3	4	4	3	3
Total	97	78	81	121	107	98	97	89	68
Rata-Rata	3.2	2.6	2.7	4.0	3.6	3.3	3.2	3.0	2.3

Lampiran 19. Hasil Uji SPSS Hedonik Kekentalan

Descriptive Statistics

Dependent Variable: Kekentalan

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	Kombinasi KOH, NaOH	Mean	Std. Deviation	N
70:10:20	90:10	3.2333	.93526	30
	80:20	2.6000	1.03724	30
	70:30	2.7000	1.05536	30
	Total	2.8444	1.03762	90
20:10:70	90:10	4.0333	.80872	30
	80:20	3.5667	1.04000	30
	70:30	3.2667	1.22990	30
	Total	3.6222	1.07659	90
30:20:50	90:10	3.2333	.97143	30
	80:20	2.9667	1.06620	30
	70:30	2.2667	.86834	30
	Total	2.8222	1.04481	90
Total	90:10	3.5000	.97439	90
	80:20	3.0444	1.11084	90
	70:30	2.7444	1.12740	90
	Total	3.0963	1.11345	270

Tests of Between-Subjects Effects

Dependent Variable: Kekentalan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	68.230 ^a	8	8.529	8.392	.000
Intercept	2588.504	1	2588.504	2546.869	.000
A	37.363	2	18.681	18.381	.000
B	26.052	2	13.026	12.816	.000
A * B	4.815	4	1.204	1.184	.318
Error	265.267	261	1.016		
Total	2922.000	270			
Corrected Total	333.496	269			

a. R Squared = .205 (Adjusted R Squared = .180)

Kekentalan

Duncan^{a,b}

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	N	Subset	
		1	2
30:20:50	90	2.8222	
70:10:20	90	2.8444	
20:10:70	90		3.6222
Sig.		.883	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1.016.

a. Uses Harmonic Mean Sample Size = 90.000.

b. Alpha = ,05.

Kekentalan

Duncan^{a,b}

Kombinasi KOH, NaOH	N	Subset		
		1	2	3
70:30	90	2.7444		
80:20	90		3.0444	
90:10	90			3.5000
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1.016.

a. Uses Harmonic Mean Sample Size = 90.000.

b. Alpha = ,05.

Lampiran 20. Data Hasil Uji Hedonik Aroma

Panelis	Hedonik Warna								
	A1B1	A1B2	A1B3	A2B1	A2B2	A2B3	A3B1	A3B2	A3B3
1	3	2	3	3	2	2	2	3	3
2	5	5	4	4	2	3	2	4	4
3	5	2	4	3	4	2	2	5	3
4	2	2	2	3	3	3	2	2	2
5	4	4	4	3	3	2	3	1	2
6	2	2	4	2	2	2	2	2	2
7	4	4	4	3	3	2	2	4	2
8	1	5	1	4	1	1	1	5	1
9	5	5	2	3	2	2	3	4	2
10	3	3	3	3	3	3	3	3	3
11	4	4	4	4	3	4	3	2	4
12	5	5	3	3	3	3	3	3	3
13	3	5	5	4	4	4	4	3	4
14	2	2	3	4	2	2	2	2	2
15	2	4	2	4	4	5	4	4	4
16	2	5	2	2	2	2	3	2	2
17	5	2	4	4	2	3	2	2	3
18	4	2	2	2	4	3	4	4	4
19	3	3	4	3	3	3	4	3	3
20	2	5	2	2	2	1	2	2	2
21	2	5	1	2	2	1	1	2	2
22	2	5	5	2	2	2	4	4	1
23	5	5	5	2	5	2	4	4	3
24	2	2	4	2	1	2	2	2	2
25	4	2	2	1	2	2	4	1	3
26	2	3	2	2	2	2	2	2	3
27	3	2	2	2	2	2	2	3	2
28	2	2	2	3	3	3	3	3	3
29	2	2	2	2	2	2	2	2	2
30	4	4	4	4	4	4	4	4	4
Total	94	103	91	85	79	74	81	87	80
Rata-Rata	3.1	3.4	3.0	2.8	2.6	2.5	2.7	2.9	2.7

Lampiran 21. Hasil Uji SPSS Hedonik Aroma

Descriptive Statistics

Dependent Variable: Aroma

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	Kombinasi KOH, NaOH	Mean	Std. Deviation	N
70:10:20	90:10	3.1333	1.25212	30
	80:20	3.4333	1.33089	30
	70:30	3.0333	1.18855	30
	Total	3.2000	1.25600	90
20:10:70	90:10	2.8333	.87428	30
	80:20	2.6333	.96431	30
	70:30	2.4667	.93710	30
	Total	2.6444	.92786	90
30:20:50	90:10	2.7000	.95231	30
	80:20	2.9000	1.09387	30
	70:30	2.6667	.88409	30
	Total	2.7556	.97510	90
Total	90:10	2.8889	1.04338	90
	80:20	2.9889	1.17554	90
	70:30	2.7222	1.02801	90
	Total	2.8667	1.08590	270

Tests of Between-Subjects Effects

Dependent Variable: Aroma

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	21.133 ^a	8	2.642	2.329	.020
Intercept	2218.800	1	2218.800	1956.001	.000
A	15.556	2	7.778	6.857	.001
B	3.267	2	1.633	1.440	.239
A * B	2.311	4	.578	.509	.729
Error	296.067	261	1.134		
Total	2536.000	270			
Corrected Total	317.200	269			

a. R Squared = .067 (Adjusted R Squared = .038)

Aroma

Duncan^{a,b}

Kombinasi Minyak Kelapa, Minyak Jarak, Minyak Kedelai	N	Subset	
		1	2
20:10:70	90	2.6444	
30:20:50	90	2.7556	
70:10:20	90		3.2000
Sig.		.485	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1.134.

a. Uses Harmonic Mean Sample Size = 90.000.

b. Alpha = ,05.

Aroma

Duncan^{a,b}

Kombinasi KOH, NaOH	N	Subset
		1
70:30	90	2.7222
90:10	90	2.8889
80:20	90	2.9889
Sig.		.114

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1.134.

a. Uses Harmonic Mean Sample Size = 90.000.

b. Alpha = ,05.