LAMPIRAN-LAMPIRAN

LAMPIRAN 1

TABEL-TABEL

Lampiran 1A. Data Pengamatan GGL

Tabel 1A.1. Data Perubahan Gaya Gerak Listrik terhadap Waktu pada Temperatur Konstan (28°C)

No	Waktu (menit)	Temperatur, t (°C)	Gaya Gerak Listrik, Emf (Volt)
(1)	(2)	(3)	(4)
1	0	28	1,576
2	5	28	1,576
3	10	28	1,576
4	15	28	1,576
5	20	28	1,576
6	25	28	1,576
7	30	28	1,576
8	35	28	1,576
9	40	28	1,576
10	45	28	1,576
11	50	28	1,576
12	55	28	1,576
13	60	28	1,576
14	70	28	1,576
15	80	28	1,576
16	90	28	1,576

Tabel 1A.2. Data Pengamatan Perubahan Gaya Gerak Listrik terhadap Temperatur Baterai ke-1.

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,569
2	1	69	1,569
3	2	68	1,569
4	3	67	1,570
5	4	66	1,570
6	5	65	1,570
7	6	64	1,570
8	7	63	1,571
9	8	62	1,571
10	9	61	1,571
11	10	60	1,571
12	11	59	1,571
13	12	58	1,572
14	13	57	1,572
15	14	56	1,572
16	15	55	1,572
17	16	54	1,572
18	18	53	1,572
19	20	52	1,572
20	21	51	1,572
21	22	50	1,573
22	24	49	1,573
23	27	48	1,573
24	29	47	1,573
25	31	46	1,573
26	32	45	1,573
27	34	44	1,574
28	36	43	1,574
29	39	42	1,574
30	42	41	1,574

Lanjutan 1A.2.

(1)	(2)	(3)	(4)
31	45	40	1,574
32	48	39	1,574
33	50	38	1,574
34	52	37	1,575
35	54	36	1,575
36	56	35	1,575
37	58	34	1,575
38	60	33	1,575
39	62	32	1,575
40	65	31	1,575
41	67	30	1,576
42	68	29	1,576
43	70	28	1,576
44	73	27	1,576
45	75	26	1,576
46	76	25	1,576
47	78	24	1,576
48	79	23	1,577
49	82	22	1,577
50	86	21	1,577
51	88	20	1,577
52	90	19	1,577
53	92	18	1,577
54	93	17	1,577
55	94	16	1,577
56	95	15	1,578
57	96	14	1,578
58	97	13	1,578
59	98	12	1,578
60	99	11	1,578
61	100	10	1,578

Tabel 1A.3. Data Pengamatan Perubahan Gaya Gerak Listrik terhadap Temperatur Baterai ke-2

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,572
2	1	69	1,572
3	2	68	1,572
4	3	67	1,573
5	4	66	1,573
6	5	65	1,573
7	6	64	1,573
8	7	63	1,573
9	8	62	1,573
10	9	61	1,573
11	10	60	1,574
12	11	59	1,574
13	12	58	1,574
14	13	57	1,574
15	14	56	1,574
16	15	55	1,574
17	16	54	1,574
18	17	53	1,575
19	19	52	1,575
20	20	51	1,575
21	22	50	1,575
22	23	49	1,575
23	25	48	1,575
24	27	47	1,575
25	30	46	1,575
26	32	45	1,575
27	35	44	1,575
28	37	43	1,576
29	40	42	1,576
30	43	41	1,576

Lanjutan Tabel 1A.3.

(1)	(2)	(3)	(4)
31	46	40	1,576
32	48	39	1,576
33	52	38	1,576
34	55	37	1,576
35	57	36	1,577
36	60	35	1,577
37	64	34	1,577
38	67	33	1,577
39	70	32	1,577
40	72	31	1,577
41	74	30	1,577
42	76	29	1,577
43	78	28	1,577
44	80	27	1,578
45	83	26	1,578
46	85	25	1,578
47	87	24	1,578
48	88	23	1,578
49	89	22	1,578
50	90	21	1,578
51	91	20	1,579
52	93	19	1,579
53	95	18	1,579
54	97	17	1,579
55	98	16	1,579
56	99	15	1,579
57	101	14	1,579
58	102	13	1,580
59	103	12	1,580
60	104	11	1,580
61	105	10	1,580

Tabel 1A.4. Data Pengamatan Perubahan Gaya Gerak Listrik terhadap Temperatur Baterai ke-3

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,574
2	1	69	1,574
3	2	68	1,574
4	3	67	1,574
5	4	66	1,574
6	5	65	1,574
7	6	64	1,574
8	7	63	1,574
9	8	62	1,575
10	9	61	1,575
11	10	60	1,575
12	11	59	1,575
13	12	58	1,575
14	13	57	1,575
15	14	56	1,575
16	15	55	1,576
17	17	54	1,576
18	19	53	1,576
19	20	52	1,576
20	22	51	1,576
21	24	50	1,576
22	25	49	1,576
23	27	48	1,576
24	29	47	1,576
25	30	46	1,577
26	32	45	1,577
27	34	44	1,577
28	36	43	1,577
29	38	42	1,577
30	40	41	1,577

Lanjutan Tabel 1A.4.

(1)	(2)	(3)	(4)
31	42	40	1,577
32	44	39	1,578
33	46	38	1,578
34	48	37	1,578
35	52	36	1,578
36	54	35	1,578
37	55	34	1,578
38	56	33	1,578
39	57	32	1,578
40	58	31	1,579
41	59	30	1,579
42	60	29	1,579
43	61	28	1,579
44	62	27	1,579
45	64	26	1,579
46	66	25	1,580
47	68	24	1,580
48	71	23	1,580
49	72	22	1,580
50	74	21	1,580
51	75	20	1,580
52	76	19	1,580
53	78	18	1,581
54	79	17	1,581
55	82	16	1,581
56	83	15	1,581
57	84	14	1,581
58	85	13	1,581
59	87	12	1,582
60	90	11	1,582
61	92	10	1,582

Tabel 1A.5. Data Pengamatan Perubahan Gaya Gerak Listrik terhadap Temperatur Baterai ke-4

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,567
2	1	69	1,567
3	2	68	1,567
4	3	67	1,567
5	4	66	1,567
6	5	65	1,567
7	6	64	1,568
8	7	63	1,568
9	8	62	1,568
10	9	61	1,568
11	10	60	1,568
12	11	59	1,568
13	12	58	1,569
14	13	57	1,569
15	14	56	1,569
16	15	55	1,569
17	16	54	1,569
18	17	53	1,570
19	19	52	1,570
20	20	51	1,570
21	22	50	1,570
22	23	49	1,570
23	25	48	1,570
24	27	47	1,571
25	30	46	1,571
26	31	45	1,571
27	33	44	1,571
28	36	43	1,571
29	39	42	1,571
30	41	41	1,572

Lanjutan Tabel 1A.5.

(1)	(2)	(3)	(4)
31	44	40	1,572
32	47	39	1,572
33	50	38	1,572
34	52	37	1,572
35	55	36	1,573
36	59	35	1,573
37	62	34	1,573
38	64	33	1,573
39	65	32	1,573
40	66	31	1,573
41	67	30	1,573
42	69	29	1,574
43	71	28	1,574
44	73	27	1,574
45	74	26	1,574
46	75	25	1,574
47	76	24	1,574
48	77	23	1,574
49	78	22	1,574
50	80	21	1,574
51	82	20	1,574
52	84	19	1,574
53	85	18	1,575
54	86	17	1,575
55	87	16	1,575
56	88	15	1,575
57	89	14	1,575
58	90	13	1,575
59	91	12	1,576
60	92	11	1,576
61	93	10	1,576

Tabel 1A.6. Data Pengamatan Perubahan Gaya Gerak Listrikterhadap Temperatur Baterai ke-5

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,572
2	1	69	1,572
3	2	68	1,572
4	3	67	1,572
5	4	66	1,573
6	5	65	1,573
7	6	64	1,573
8	7	63	1,573
9	8	62	1,573
10	9	61	1,573
11	11	60	1,574
12	12	59	1,574
13	13	58	1,574
14	14	57	1,574
15	16	56	1,574
16	18	55	1,574
17	19	54	1,574
18	20	53	1,574
19	22	52	1,575
20	24	51	1,575
21	26	50	1,575
22	28	49	1,575
23	30	48	1,575
24	32	47	1,575
25	34	46	1,575
26	35	45	1,576
27	37	44	1,576
28	39	43	1,576
29	41	42	1,576
30	43	41	1,576

Lanjutan Tabel 1A.6.

(1)	(2)	(3)	(4)
31	46	40	1,576
32	48	39	1,576
33	49	38	1,577
34	50	37	1,577
35	51	36	1,577
36	52	35	1,577
37	53	34	1,577
38	54	33	1,577
39	55	32	1,577
40	56	31	1,578
41	57	30	1,578
42	58	29	1,578
43	60	28	1,578
44	61	27	1,578
45	63	26	1,578
46	65	25	1,578
47	66	24	1,579
48	68	23	1,579
49	69	22	1,579
50	70	21	1,579
51	72	20	1,579
52	75	19	1,579
53	76	18	1,579
54	78	17	1,580
55	80	16	1,580
56	81	15	1,580
57	82	14	1,580
58	83	13	1,580
59	84	12	1,580
60	85	11	1,580
61	86	10	1,580

Tabel 1A.7. Data Pengamatan Perubahan Gaya Gerak Listrik terhadap Temperatur Baterai ke-6

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,572
2	1	69	1,572
3	2	68	1,572
4	3	67	1,572
5	4	66	1,572
6	5	65	1,572
7	6	64	1,572
8	7	63	1,573
9	8	62	1,573
10	9	61	1,573
11	10	60	1,573
12	11	59	1,573
13	12	58	1,573
14	13	57	1,573
15	14	56	1,574
16	15	55	1,574
17	16	54	1,574
18	18	53	1,574
19	19	52	1,574
20	20	51	1,574
21	22	50	1,574
22	24	49	1,574
23	26	48	1,575
24	28	47	1,575
25	30	46	1,575
26	31	45	1,575
27	33	44	1,575
28	35	43	1,575
29	37	42	1,575
30	39	41	1,575

Lanjutan Tabel 1A.7.

(1)	(2)	(3)	(4)
31	41	40	1,575
32	42	39	1,575
33	44	38	1,576
34	46	37	1,576
35	47	36	1,576
36	48	35	1,576
37	50	34	1,576
38	51	33	1,576
39	52	32	1,576
40	54	31	1,576
41	56	30	1,576
42	57	29	1,576
43	58	28	1,576
44	61	27	1,577
45	62	26	1,578
46	63	25	1,577
47	64	24	1,577
48	65	23	1,577
49	66	22	1,577
50	67	21	1,577
51	68	20	1,577
52	69	19	1,578
53	71	18	1,578
54	72	17	1,578
55	73	16	1,578
56	74	15	1,578
57	75	14	1,578
58	77	13	1,588
59	78	12	1,579
60	79	11	1,579
61	81	10	1,579

Tabel 1A.8. Data Pengamatan Perubahan Gaya Gerak Listrik terhadap Temperatur Baterai ke-7

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,570
2	1	69	1,570
3	2	68	1,570
4	3	67	1,570
5	4	66	1,570
6	5	65	1,570
7	6	64	1,571
8	7	63	1,571
9	8	62	1,571
10	9	61	1,571
11	10	60	1,571
12	11	59	1,571
13	13	58	1,571
14	14	57	1,571
15	16	56	1,572
16	17	55	1,572
17	18	54	1,572
18	20	53	1,572
19	21	52	1,572
20	22	51	1,572
21	23	50	1,573
22	24	49	1,573
23	26	48	1,573
24	28	47	1,573
25	30	46	1,573
26	31	45	1,573
27	32	44	1,573
28	34	43	1,574
29	36	42	1,574
30	38	41	1,574

Lanjutan Tabel 1A.8.

(1)	(2)	(3)	(4)
31	40	40	1,574
32	42	39	1,574
33	45	38	1,574
34	47	37	1,575
35	49	36	1,575
36	50	35	1,575
37	52	34	1,575
38	53	33	1,575
39	54	32	1,575
40	55	31	1,575
41	57	30	1,575
42	58	29	1,576
43	59	28	1,576
44	60	27	1,576
45	61	26	1,576
46	62	25	1,576
47	63	24	1,576
48	64	23	1,576
49	65	22	1,577
50	66	21	1,577
51	67	20	1,577
52	68	19	1,577
53	69	18	1,577
54	70	17	1,577
55	71	16	1,577
56	72	15	1,577
57	73	14	1,578
58	74	13	1,578
59	75	12	1,578
60	76	11	1,578
61	77	10	1,578

Tabel 1A.9. Data Pengamatan Perubahan Gaya Gerak Listrik terhadap Temperatur Baterai ke-8

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,570
2	1	69	1,570
3	2	68	1,570
4	3	67	1,570
5	4	66	1,570
6	5	65	1,571
7	6	64	1,571
8	7	63	1,571
9	8	62	1,571
10	9	61	1,571
11	10	60	1,571
12	11	59	1,572
13	12	58	1,572
14	13	57	1,572
15	14	56	1,572
16	16	55	1,572
17	18	54	1,572
18	20	53	1,573
19	21	52	1,573
20	23	51	1,573
21	24	50	1,573
22	26	49	1,573
23	27	48	1,573
24	29	47	1,573
25	31	46	1,574
26	33	45	1,574
27	34	44	1,574
28	36	43	1,574
29	37	42	1,574
30	39	41	1,574

Lanjutan Tabel 1A.9.

(1)	(2)	(3)	(4)
31	41	40	1,574
32	43	39	1,575
33	45	38	1,575
34	47	37	1,575
35	49	36	1,575
36	51	35	1,575
37	52	34	1,575
38	53	33	1,575
39	54	32	1,576
40	56	31	1,576
41	58	30	1,576
42	59	29	1,576
43	60	28	1,576
44	61	27	1,576
45	63	26	1,576
46	65	25	1,577
47	66	24	1,577
48	67	23	1,577
49	68	22	1,577
50	69	21	1,577
51	70	20	1,577
52	71	19	1,577
53	72	18	1,577
54	73	17	1,577
55	74	16	1,577
56	75	15	1,578
57	76	14	1,578
58	77	13	1,578
59	79	12	1,578
60	81	11	1,578
61	83	10	1,578

Tabel 1A.10.Data Pengamatan Perubahan Gaya Gerak Listrik terhadap Temperatur Baterai ke-9

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,572
2	1	69	1,572
3	2	68	1,572
4	3	67	1,573
5	4	66	1,573
6	5	65	1,573
7	6	64	1,573
8	7	63	1,573
9	8	62	1,573
10	9	61	1,573
11	10	60	1,574
12	12	59	1,574
13	13	58	1,574
14	14	57	1,574
15	15	56	1,574
16	16	55	1,574
17	17	54	1,574
18	18	53	1,575
19	19	52	1,575
20	20	51	1,575
21	21	50	1,575
22	22	49	1,575
23	24	48	1,575
24	26	47	1,575
25	28	46	1,576
26	30	45	1,576
27	32	44	1,576
28	34	43	1,576
29	36	42	1,576
30	38	41	1,576

Lanjutan Tabel 1A.10.

(1)	(2)	(3)	(4)
31	40	40	1,576
32	42	39	1,576
33	44	38	1,577
34	46	37	1,577
35	47	36	1,577
36	49	35	1,577
37	50	34	1,577
38	51	33	1,577
39	52	32	1,577
40	54	31	1,577
41	55	30	1,578
42	56	29	1,578
43	57	28	1,578
44	59	27	1,578
45	60	26	1,578
46	62	25	1,578
47	64	24	1,578
48	65	23	1,578
49	66	22	1,579
50	67	21	1,579
51	69	20	1,579
52	71	19	1,579
53	72	18	1,579
54	74	17	1,579
55	75	16	1,579
56	77	15	1,580
57	79	14	1,580
58	81	13	1,580
59	83	12	1,580
60	85	11	1,580
61	87	10	1,580

Tabel 1A.11.Data Pengamatan Perubahan Gaya Gerak Listrik terhadap Temperatur Baterai ke-10

No (1)	Waktu (menit) (2)	Temperatur, t (°C) (3)	Gaya Gerak Listrik, Emf (Volt) (4)
1	0	70	1,550
2	1	69	1,550
3	2	68	1,550
4	3	67	1,550
5	4	66	1,550
6	5	65	1,550
7	6	64	1,550
8	7	63	1,551
9	8	62	1,551
10	9	61	1,551
11	10	60	1,551
12	11	59	1,551
13	12	58	1,551
14	14	57	1,551
15	15	56	1,551
16	17	55	1,551
17	18	54	1,552
18	19	53	1,552
19	20	52	1,552
20	22	51	1,552
21	23	50	1,552
22	24	49	1,552
23	25	48	1,552
24	26	47	1,553
25	27	46	1,553
26	28	45	1,553
27	30	44	1,553
28	32	43	1,553
29	34	42	1,554
30	36	41	1,554

Lanjutan Tabel 1A.11.

(1)	(2)	(3)	(4)
31	38	40	1,554
32	41	39	1,554
33	43	38	1,555
34	46	37	1,555
35	49	36	1,555
36	51	35	1,555
37	53	34	1,555
38	55	33	1,555
39	56	32	1,556
40	57	31	1,556
41	59	30	1,556
42	61	29	1,556
43	63	28	1,556
44	65	27	1,556
45	67	26	1,557
46	69	25	1,557
47	70	24	1,557
48	71	23	1,557
49	72	22	1,557
50	73	21	1,557
51	74	20	1,557
52	75	19	1,558
53	77	18	1,558
54	79	17	1,558
55	81	16	1,558
56	82	15	1,558
57	83	14	1,558
58	84	13	1,559
59	85	12	1,559
60	86	11	1,559
61	89	10	1,559

Lampiran 1B. Data Energi Bebas Gibbs Hasil Perhitungan

Tabel 1B.2. Energi Bebas Gibbs Baterai ke-2

Temperatur (°K)	Energi Gibbs (kJ mol^{-1})	Temperatur (°K)	Energi Gibbs (kJ mol^{-1})
283	-304,893	318	-303,928
288	-304,699	323	-303,928
293	-304,699	328	-303,735
298	-304,507	333	-303,735
303	-304,314	338	-303,542
308	-304,314	343	-303,349
313	-304,121	-	-

Tabel 1B.3. Energi Bebas Gibbs Baterai ke-3

Temperatur (°K)	Energi Gibbs (kJ mol^{-1})	Temperatur (°K)	Energi Gibbs (kJ mol^{-1})
283	-305,278	318	-304,313
288	-305,086	323	-304,121
293	-304,893	328	-304,121
298	-304,893	333	-303,928
303	-304,699	338	-303,735
308	-304,507	343	-303,735
313	-304,313	-	-

Tabel 1B.4. Energi Bebas Gibbs Baterai ke-4

Temperatur (°K)	Energi Gibbs (kJ mol^{-1})	Temperatur (°K)	Energi Gibbs (kJ mol^{-1})
283	-303,928	318	-303,156
288	-303,928	323	-302,963
293	-303,735	328	-302,770
298	-303,735	333	-302,577
303	-303,542	338	-302,384
308	-303,542	343	-302,384
313	-303,349	-	-

Tabel 1B.5. Energi Bebas Gibbs Baterai ke-5

Temperatur (°K)	Energi Gibbs (kJ mol^{-1})	Temperatur (°K)	Energi Gibbs (kJ mol^{-1})
283	-304,893	318	-304,121
288	-304,893	323	-303,928
293	-304,699	328	-303,735
298	-304,507	333	-303,735
303	-304,507	338	-303,542
308	-304,314	343	-303,349
313	-304,121	-	-

Tabel 1B.6. Energi Bebas Gibbs Baterai ke-6

Temperatur (°K)	Energi Gibbs (kJ mol^{-1})	Temperatur (°K)	Energi Gibbs (kJ mol^{-1})
283	-304,699	318	-303,928
288	-304,507	323	-303,735
293	-304,314	328	-303,735
298	-304,314	333	-303,542
303	-304,121	338	-303,349
308	-304,121	343	-303,349
313	-303,928	-	-

Tabel 1B.7. Energi Bebas Gibbs Baterai ke-7

Temperatur (°K)	Energi Gibbs (kJ mol^{-1})	Temperatur (°K)	Energi Gibbs (kJ mol^{-1})
283	-304,507	318	-303,542
288	-304,314	323	-303,349
293	-304,314	328	-303,156
298	-303,928	333	-303,156
303	-303,928	338	-302,963
308	-303,735	343	-302,963
313	-303,542	-	-

Tabel 1B.8. Energi Bebas Gibbs Baterai ke-8

Temperatur (°K)	Energi Gibbs (kJ mol^{-1})	Temperatur (°K)	Energi Gibbs (kJ mol^{-1})
283	-304,507	318	-303,735
288	-304,507	323	-303,542
293	-304,314	328	-303,349
298	-304,314	333	-303,156
303	-304,121	338	-303,156
308	-303,928	343	-302,963
313	-303,735	-	-

Tabel 1B.9. Energi Bebas Gibbs Baterai ke-9

Temperatur (°K)	Energi Gibbs (kJ mol^{-1})	Temperatur (°K)	Energi Gibbs (kJ mol^{-1})
283	-304,893	318	-304,121
288	-304,893	323	-303,928
293	-304,699	328	-303,735
298	-304,507	333	-303,735
303	-304,507	338	-303,542
308	-304,314	343	-303,349
313	-304,121	-	-

Tabel 1B.10. Energi Bebas Gibbs Baterai ke-10

Temperatur (°K)	Energi Gibbs (kJ mol^{-1})	Temperatur (°K)	Energi Gibbs (kJ mol^{-1})
283	-300,840	318	-299,682
288	-300,647	323	-299,489
293	-300,454	328	-299,297
298	-300,454	333	-299,296
303	-300,261	338	-299,104
308	-300,068	343	-299,103
313	-299,875	-	-

Lampiran 1C. Data Literatur Untuk Entalpi dan Entropi Standar

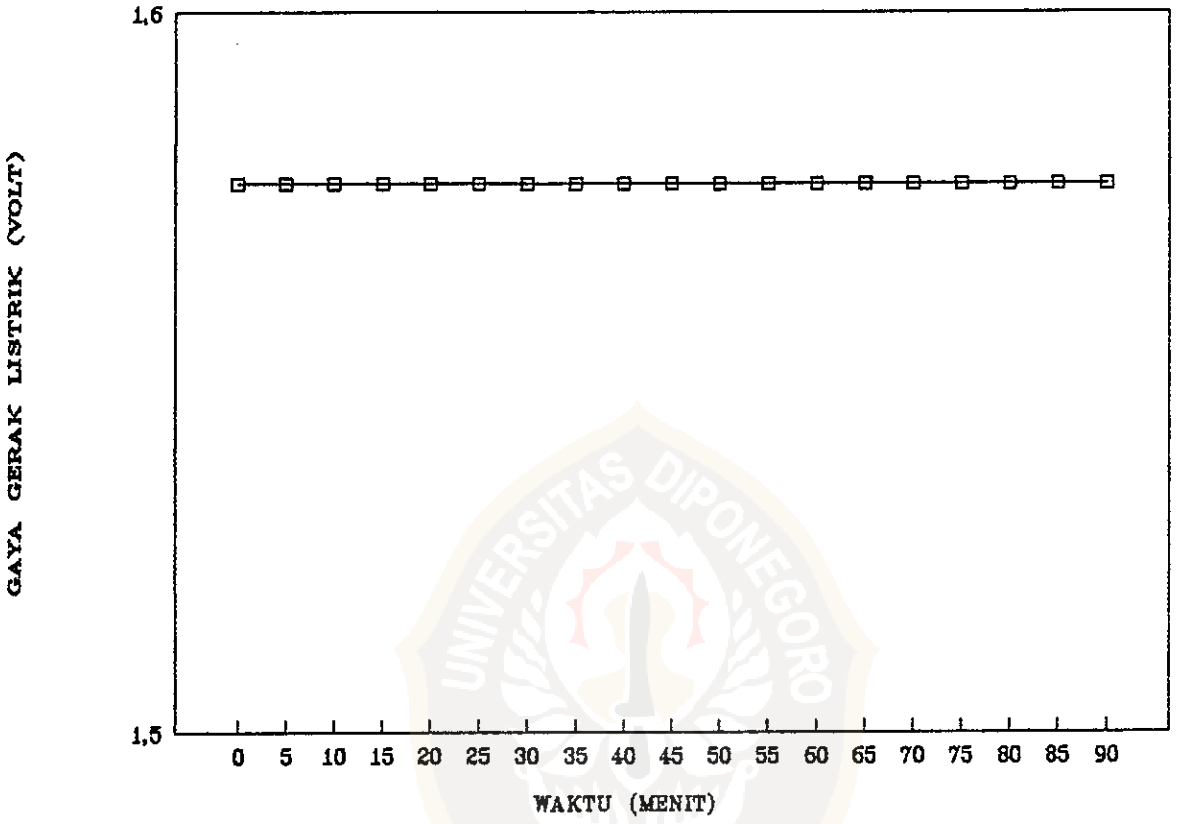
Tabel 1C.1.Panas Pembentukan dan Entropi Standar[9]

	$(\Delta H_f)_{298}$ (kJ mol^{-1})	ΔS_{298} (J°K^{-1} mol^{-1})
$Ag_{(s)}$	0	42,570
$Ag_2O_{(s)}$	-31,060	121,394
$Zn_{(s)}$	0	41,650
$ZnO_{(s)}$	-348,440	43,660

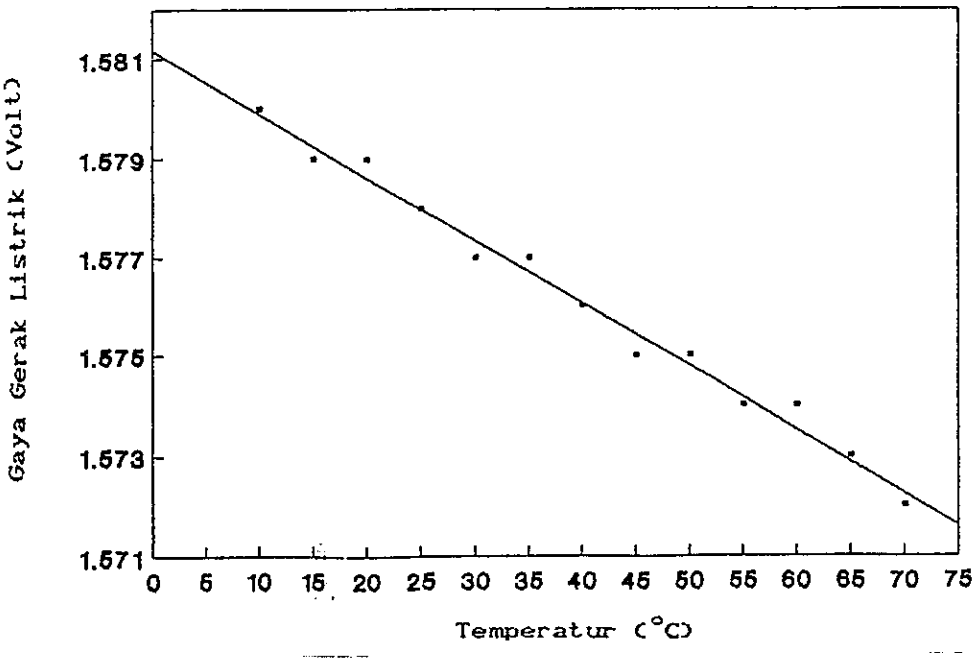
LAMPIRAN 2

GRAFIK-GRAFIK

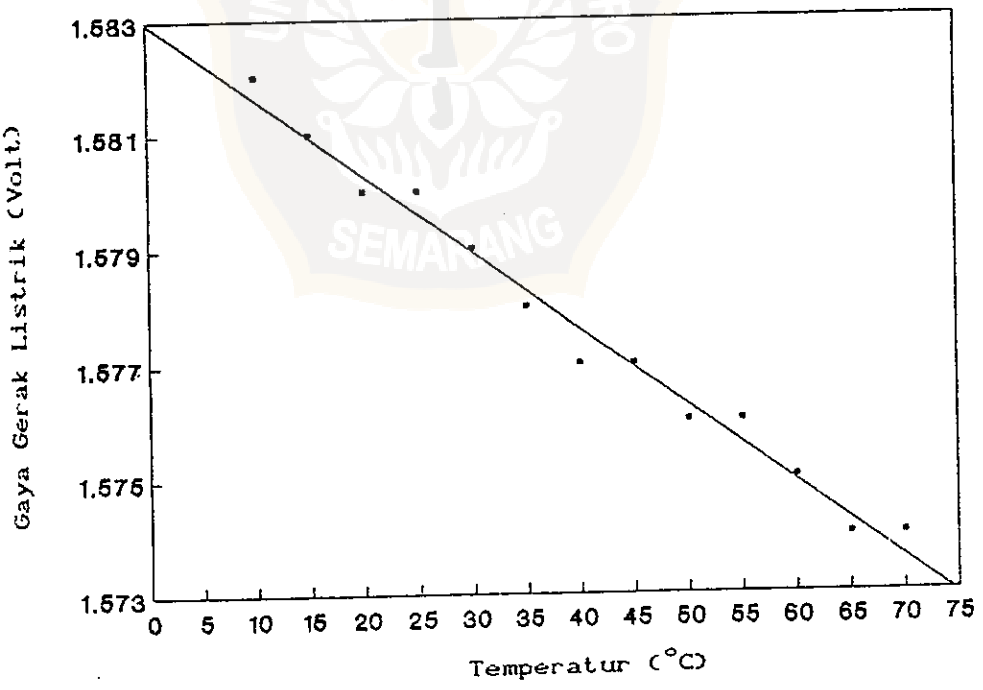
EKSPERIMEN PENDAHULUAN



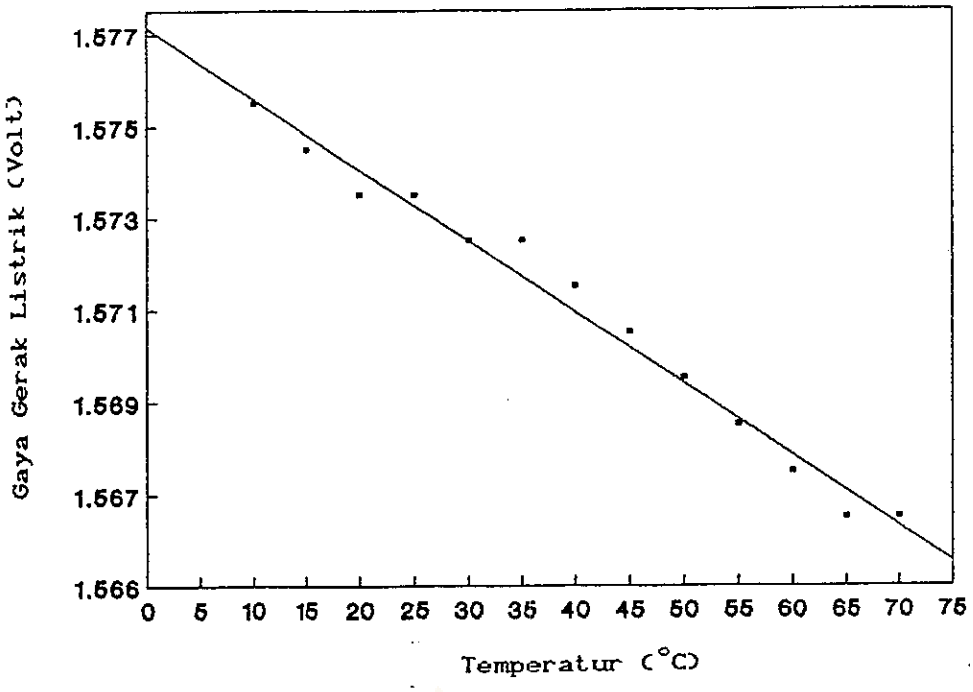
Grafik 2A.1. Kurva Perubahan Gaya Gerak Listrik Baterai terhadap Waktu (T = 28°C)



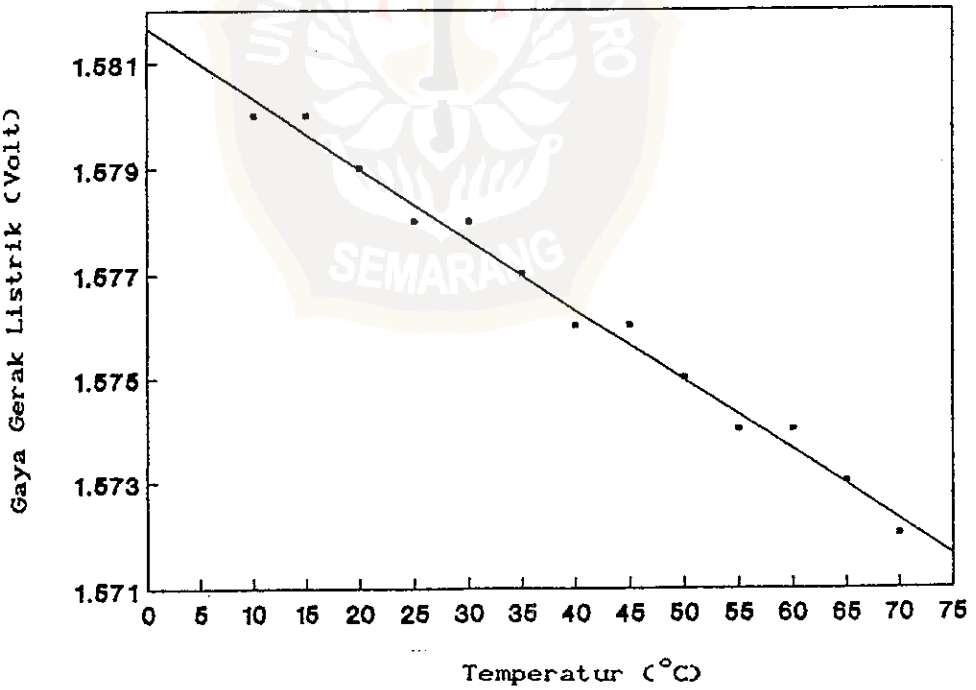
Grafik 2A.2. Kurva Perubahan Gaya Gerak Listrik Baterai ke-2



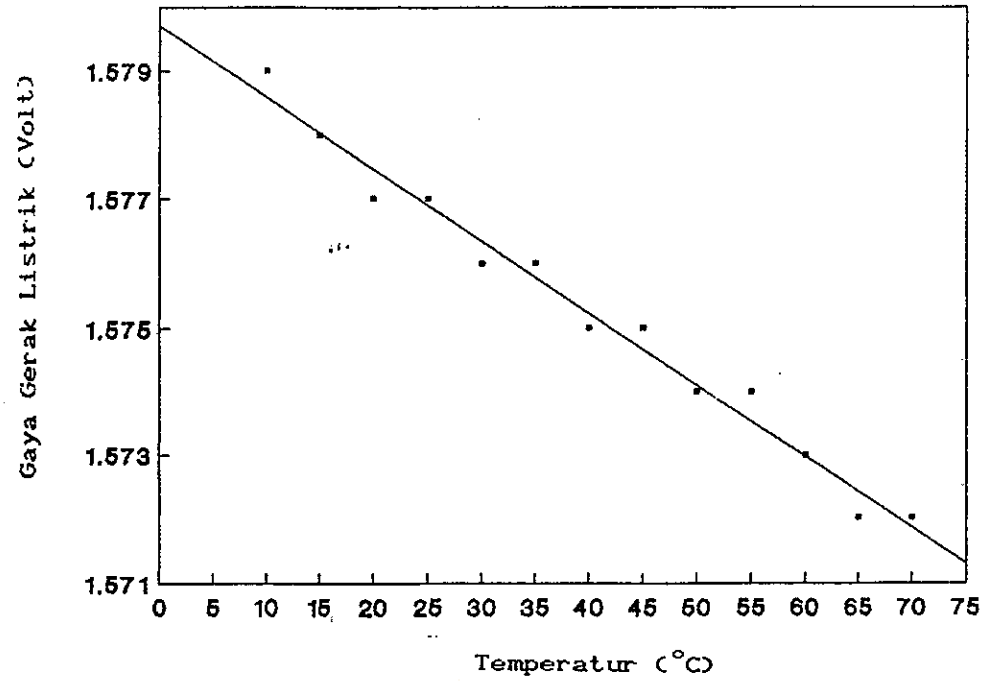
Grafik 2A.3. Kurva Perubahan Gaya Gerak Listrik Baterai ke-3



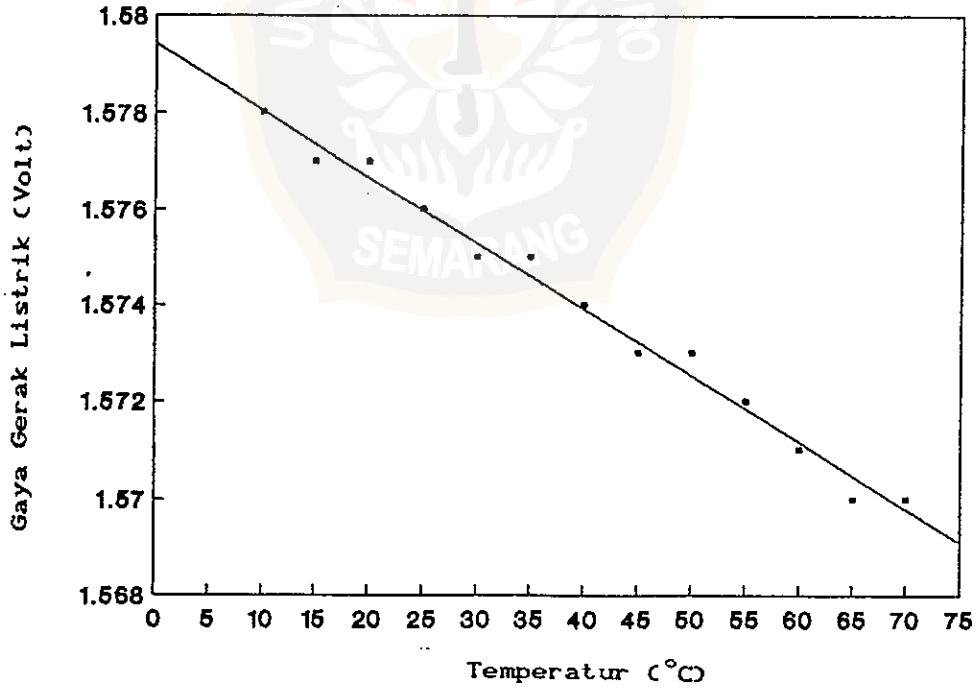
Grafik 2A.3. Kurva Perubahan Gaya Gerak Listrik Baterai ke-4.



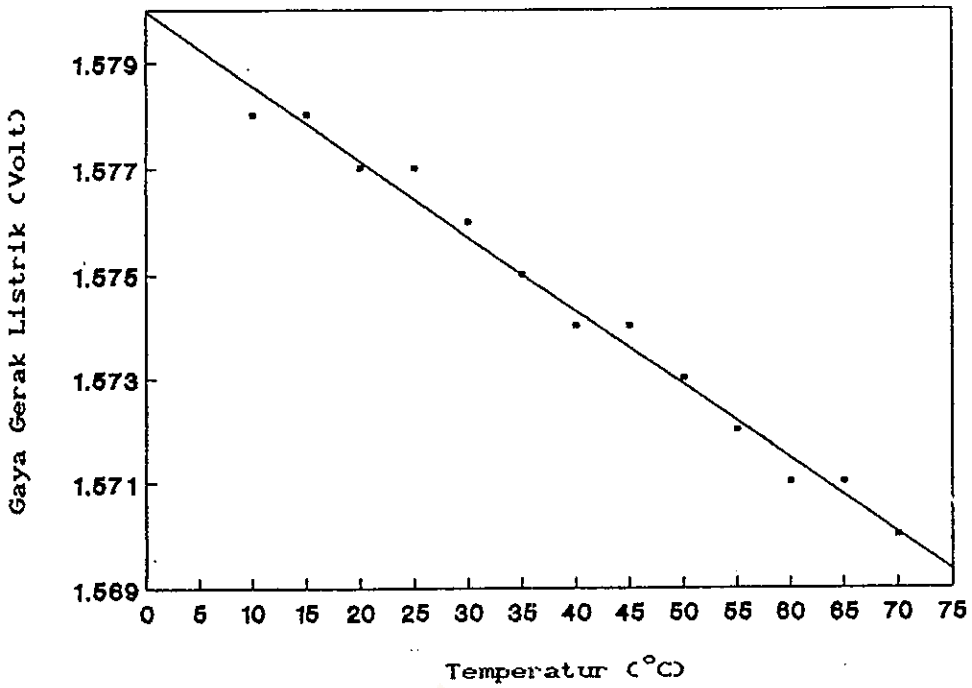
Grafik 2A.5. Kurva Perubahan Gaya Gerak Listrik Baterai ke-5



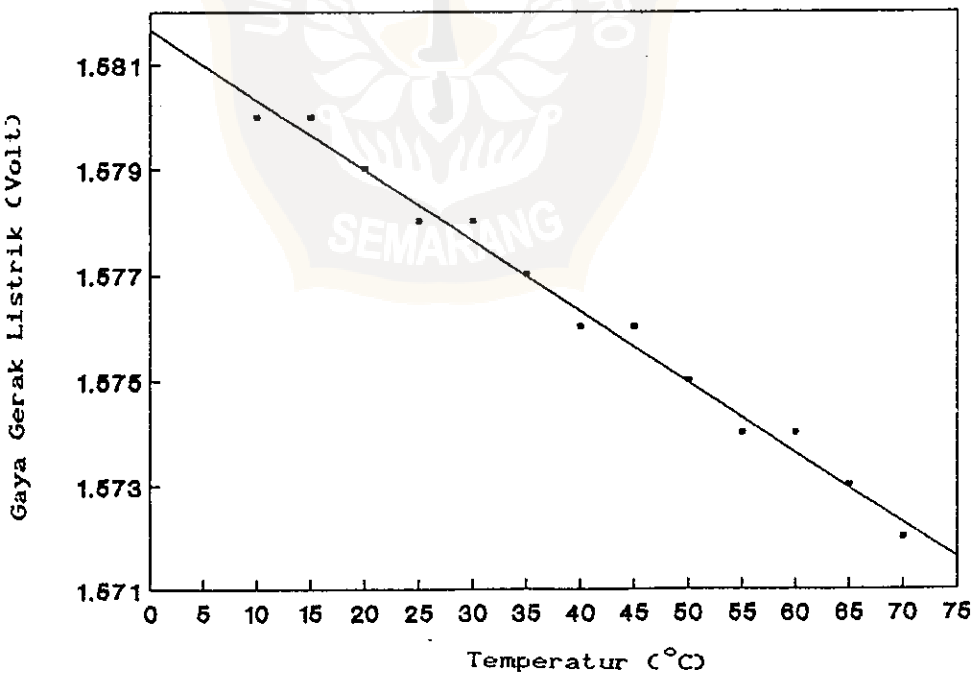
Grafik 2A.6. Kurva Perubahan Gaya Gerak Listrik Baterai ke-6



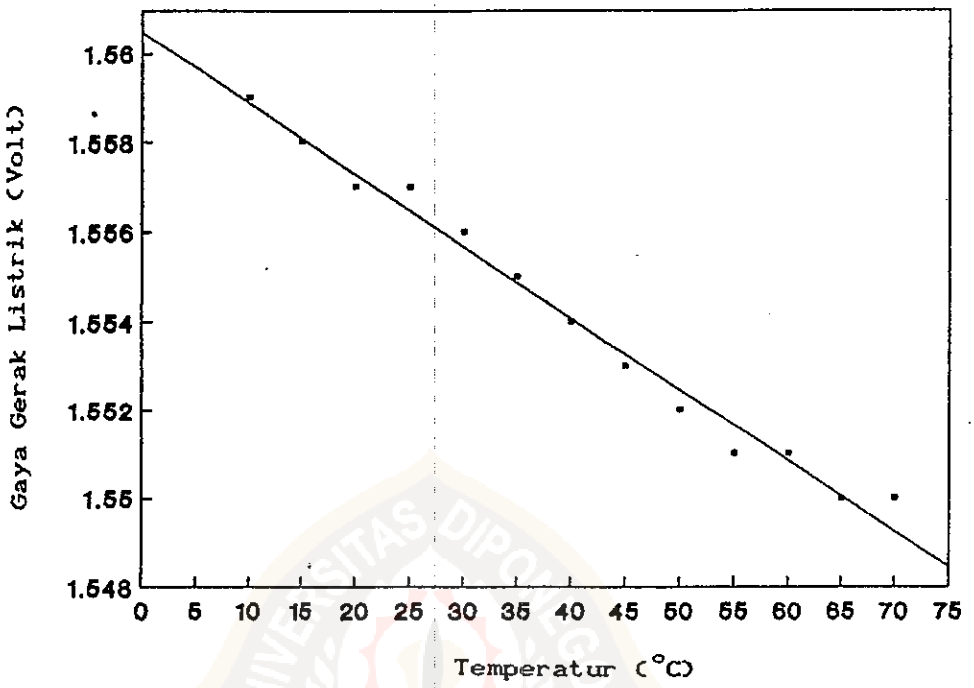
Grafik 2A.7. Kurva Perubahan Gaya Gerak Listrik Baterai ke-7



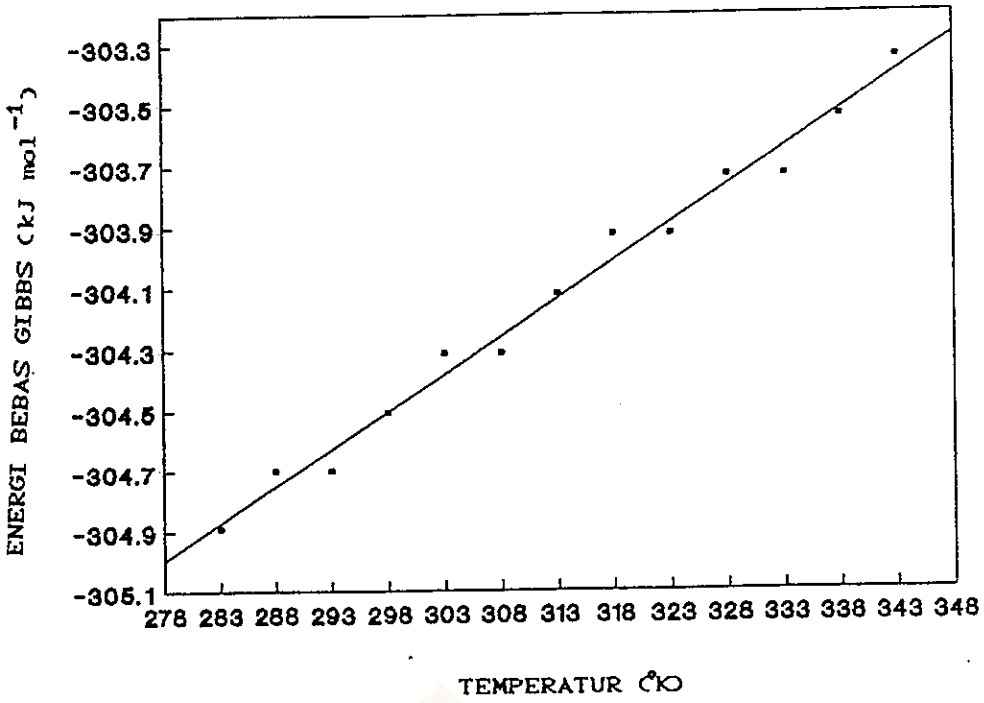
Grafik 2A.8. Kurva Perubahan Gaya Gerak Listrik Baterai ke-8



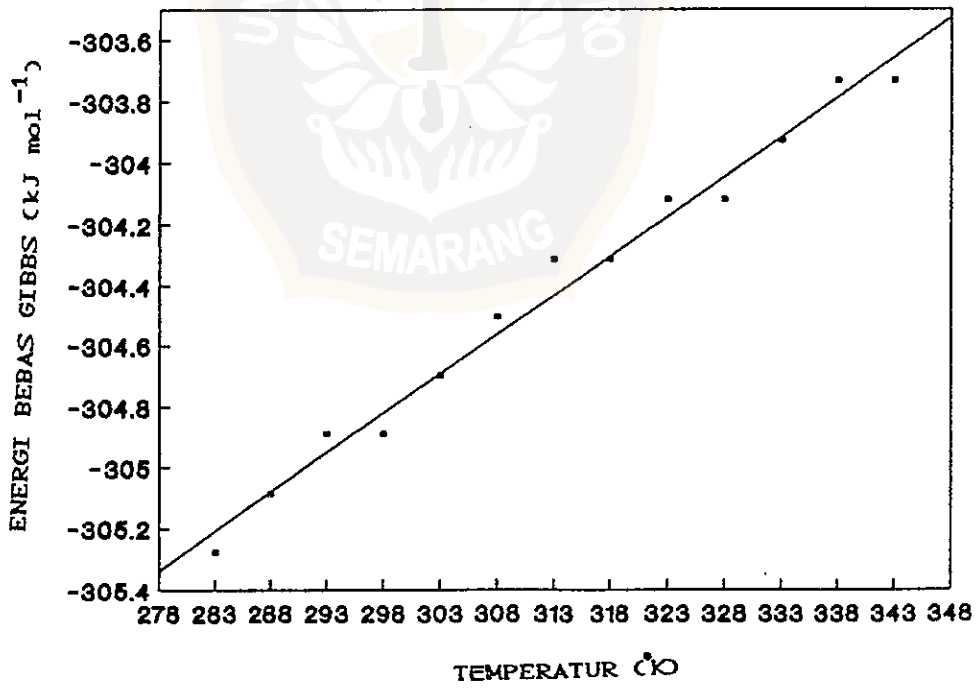
Grafik 2A.9. Kurva Perubahan Gaya Gerak Listrik Baterai ke-9



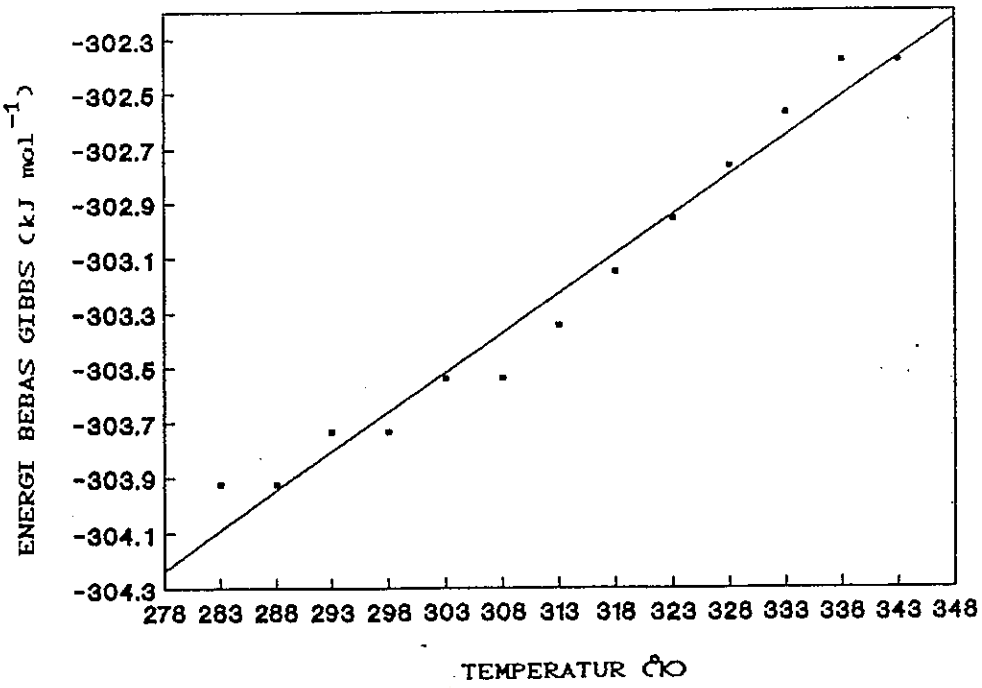
Grafik 2A.10. Kurva Perubahan Gaya Gerak Listrik Baterai ke-10



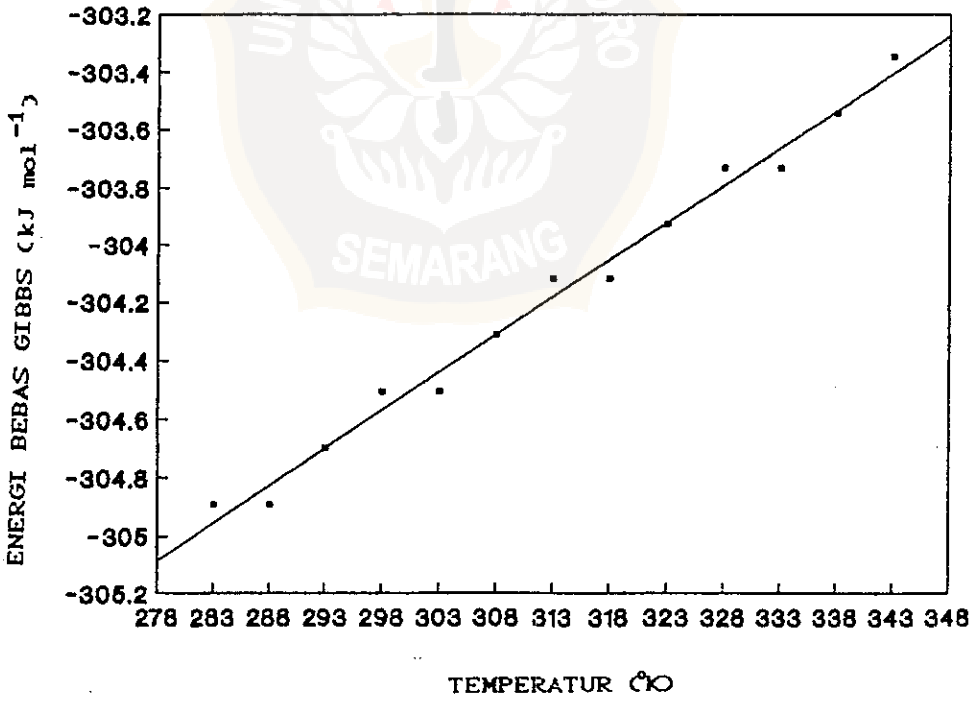
Grafik 2B.1. Kurva Perubahan Energi Bebas Gibbs Baterai ke-2



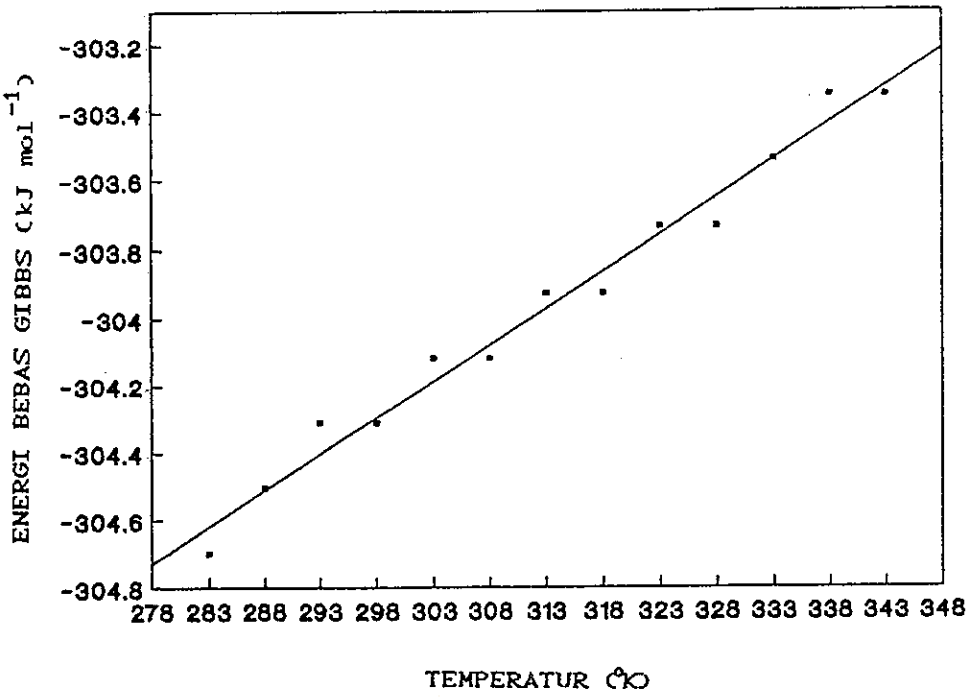
Grafik 2B.2. Kurva Perubahan Energi Bebas Gibbs Baterai ke-3



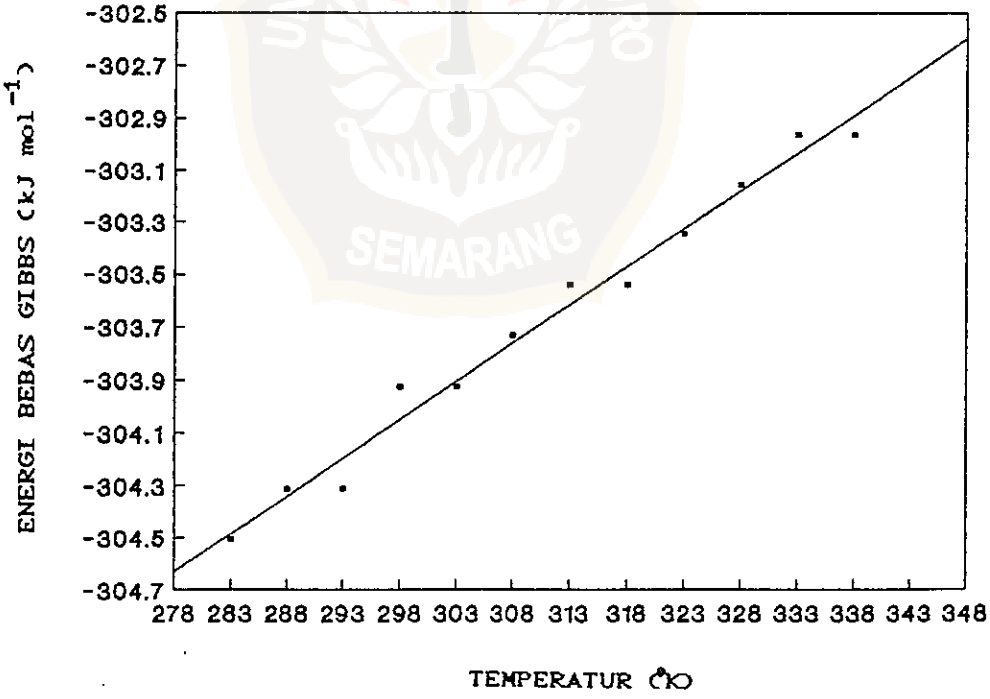
Grafik 2B.3. Kurva Perubahan Energi Bebas Gibbs Baterai ke-4



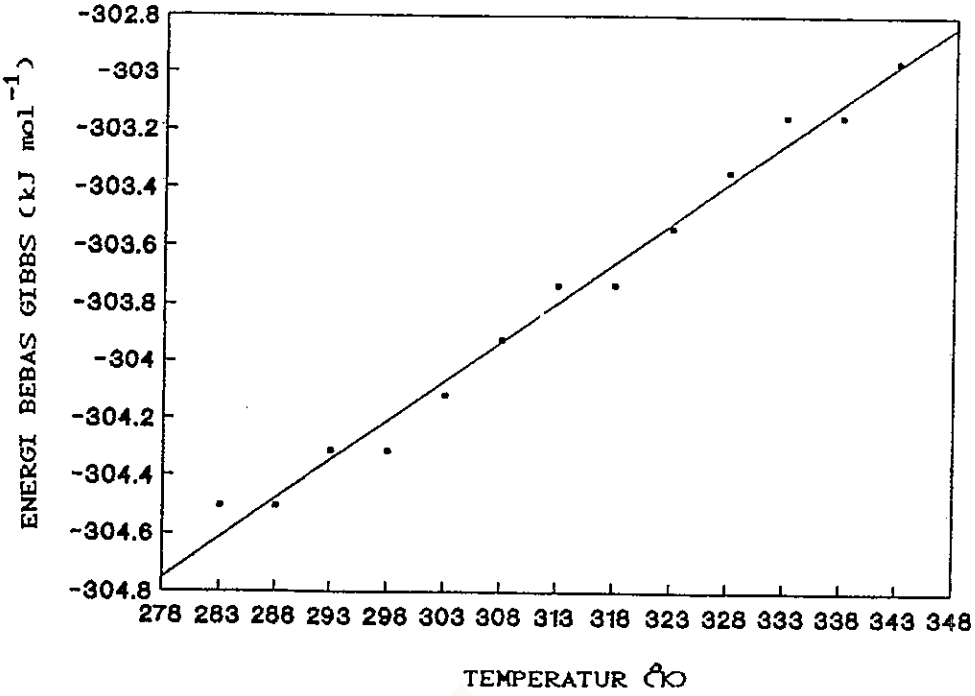
Grafik 2B.4. Kurva Perubahan Energi Bebas Gibbs Baterai ke-5



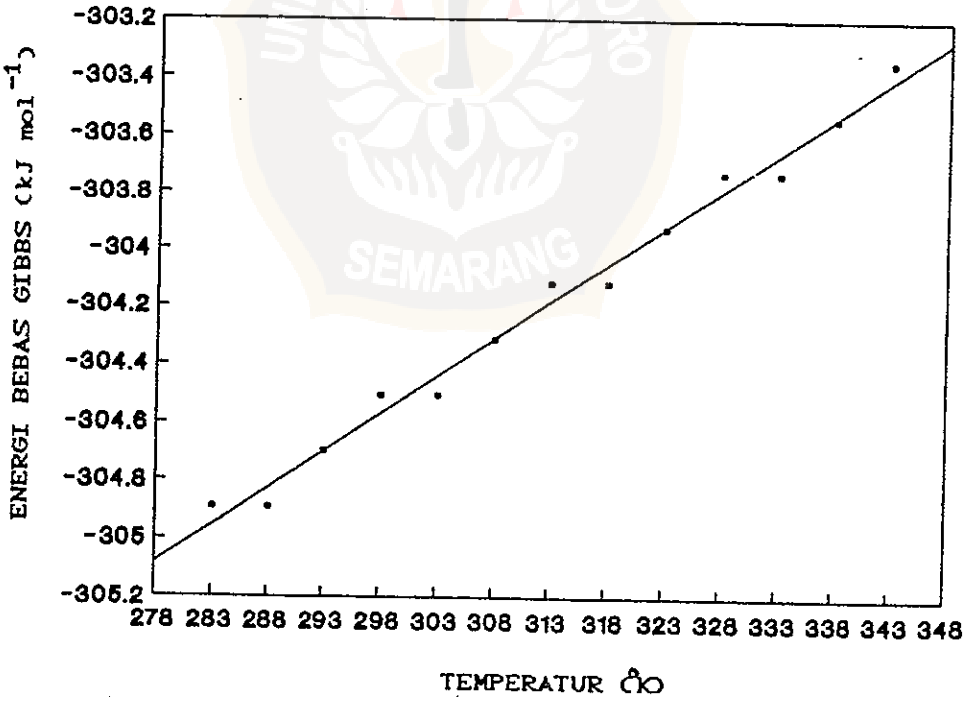
Grafik 2B.5. Kurva Perubahan Energi Bebas Gibbs Baterai ke-6



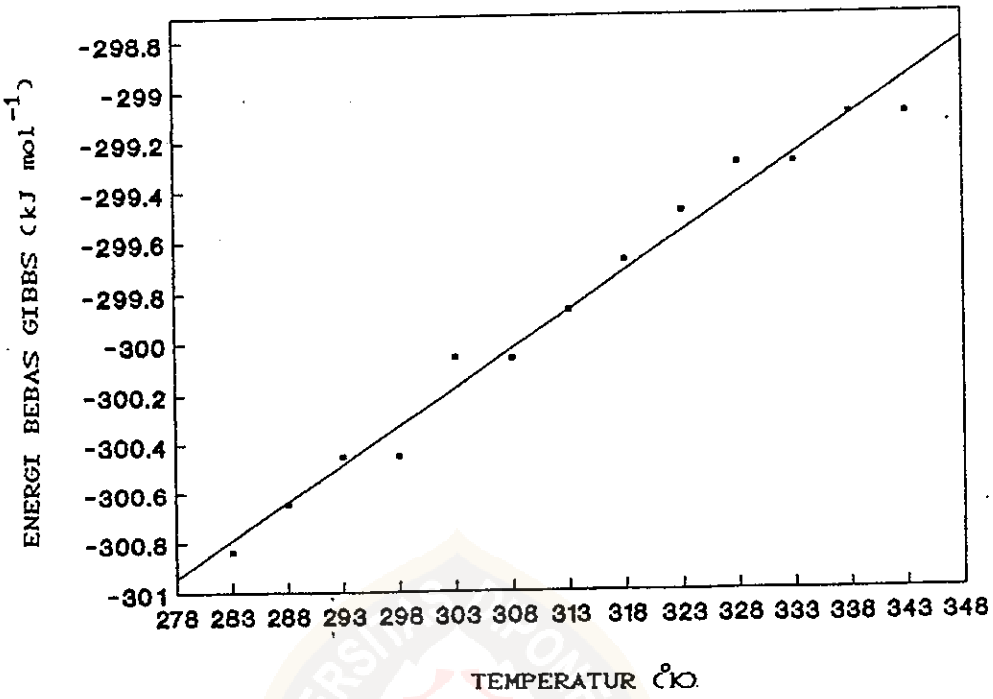
Grafik 2B.6. Kurva Perubahan Energi Bebas Gibbs baterai ke-7



Grafik 2B.7. Kurva Perubahan Energi Bebas Gibbs Baterai ke-8



Grafik 2B.8. Kurva Perubahan Energi Bebas Gibbs Baterai ke-9



Grafik 2B.9. Kurva Perubahan Energi Bebas Gibbs Baterai ke-10