TABLES AND GRAPHS OF RESULTS

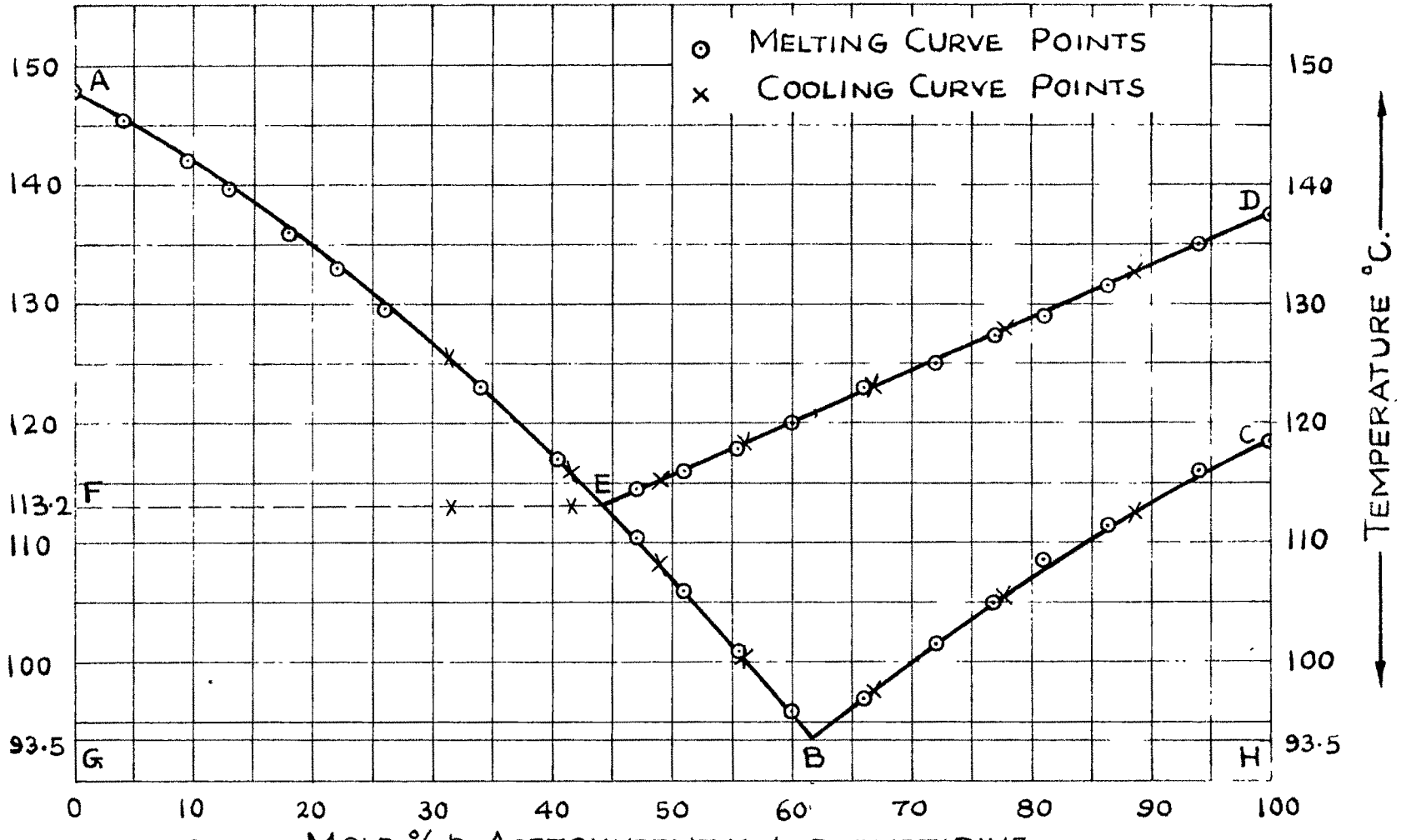

MELTING CURVE POINTS
COOLING CURVE POINTS
150
140
130
120
113·2
110
100
93·5
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-ANISAL-p-ANISIDINE.

FIG. 10

Table·3

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-anisidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
94.19	94.02	116.0	135.0
88.39	86.66	111.5	131.5
84.07	81.47	108.5	128.8
80.05	77.34	105.0	127.5
75.34	72.47	101.5	125.0
69.68	66.01	97.0	123.0
63.92	60.07	95.8	120.0
59.53	55.85	101.0	118.0
55.17	51.00	106.0	116.0
52.84	46.98	110.5	114.5
45.07	40.61	117.0	-
37.35	34.52	123.0	-
30.21	26.31	129.5	-
25.63	21.95	133.0	-
20.93	18.23	136.0	-
15.40	13.48	139.5	-
11.20	9.66	142.0	-
5.48	4.25	145.5	-
00.00	00.00	148.0	-

Sintering Point = 93.5°C.

Table 4

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-anisidine

(Cooling Curve)

Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in ^{o}C	T.P. in ^{o}C
100.00	118.5	137.5
88.51	112.5	132.4
77.27	105.6	128.1
66.65	97.5	122.8
56.16	100.8	117.9
49.08	108.5	115.0
41.08	116.0	113.2
31.48	125.8	113.0
00.00	148.0	-

Eutectic Point = $93.5^{o}C$.

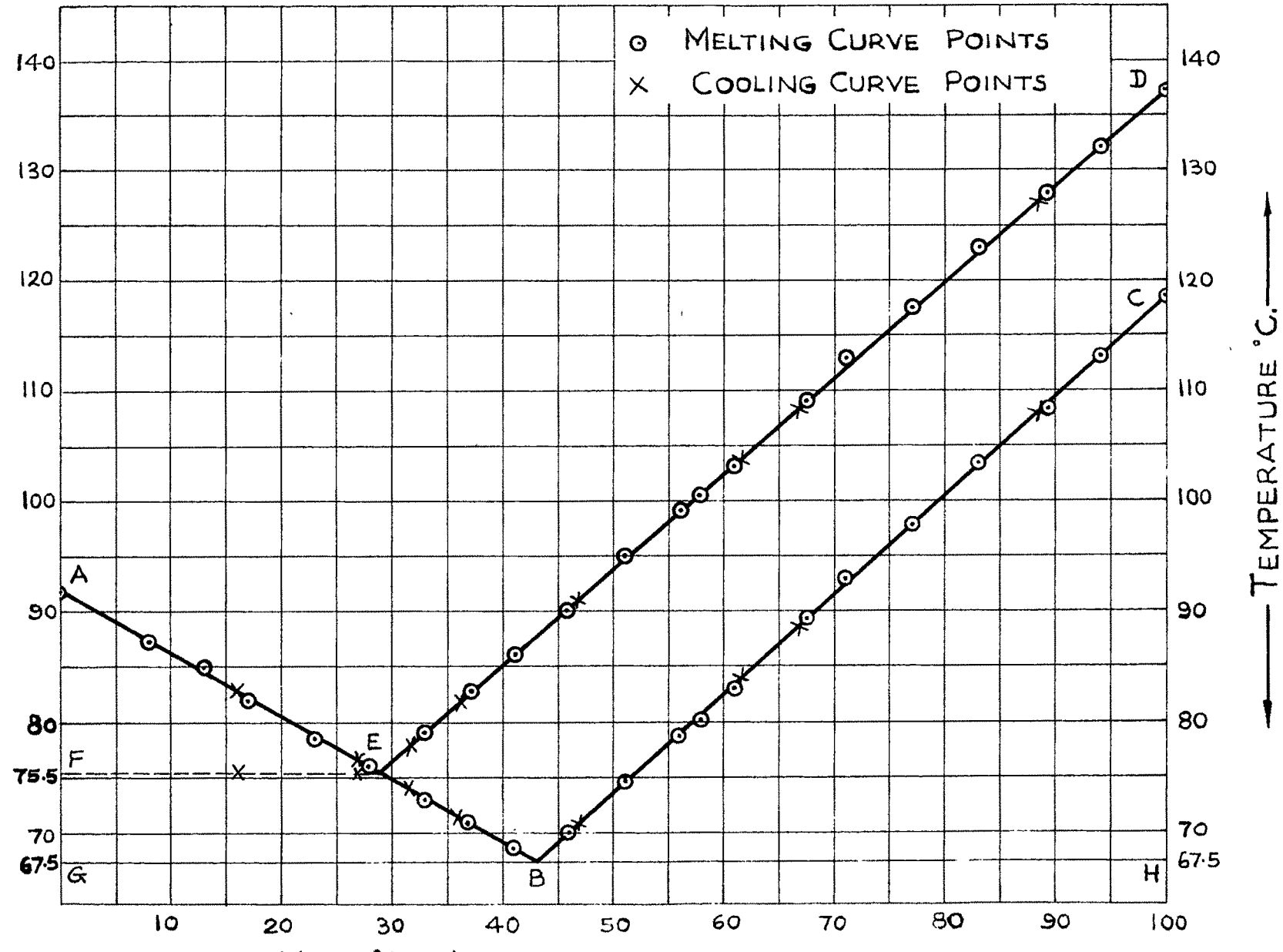

Melting Curve Points
Cooling Curve Points
A
B
C
D
E
F
G
H
140
130
120
110
100
90
80
75.5
70
67.5
10
20
30
40
50
60
70
80
90
100
Temperature °C.
Mole % p-Acetoxybenzal-p-phenetidine
p-Acetoxybenzal-p-phenetidine : p-Anisal-p-chloroaniline.

Fig. 11

Table 5

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-chloroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
95.28	94.32	113.0	132.0
89.80	89.48	108.0	128.0
84.20	83.00	103.5	123.0
80.56	77.47	98.0	117.5
75.16	71.09	93.0	113.0
70.76	66.95	89.2	109.0
64.54	61.41	83.0	103.0
61.09	57.89	80.0	100.5
59.74	56.45	78.5	99.0
54.91	51.46	74.6	95.0
49.81	46.09	70.0	90.0
45.12	41.06	68.4	86.0
39.78	37.21	71.0	83.2
34.73	33.37	73.0	79.0
29.85	28.26	76.0	-
25.26	23.14	78.0	-
19.86	17.38	82.0	-
15.27	13.24	85.0	-
9.98	8.00	87.0	-
00.00	00.00	92.0	-

Sintering Point = 67.5°C.

Table 6

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-chloroaniline

(Cooling Curve)

Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	118.5	137.5
88.57	108.1	126.9
67.364	88.5	108.5
61.70	84.0	103.4
46.45	70.5	91.1
36.26	70.8	82.0
31.85	74.2	78.0
27.12	76.5	75.5
16.04	83.0	75.5
00.00	92.0	-

Eutectic Point = 67.5°C.

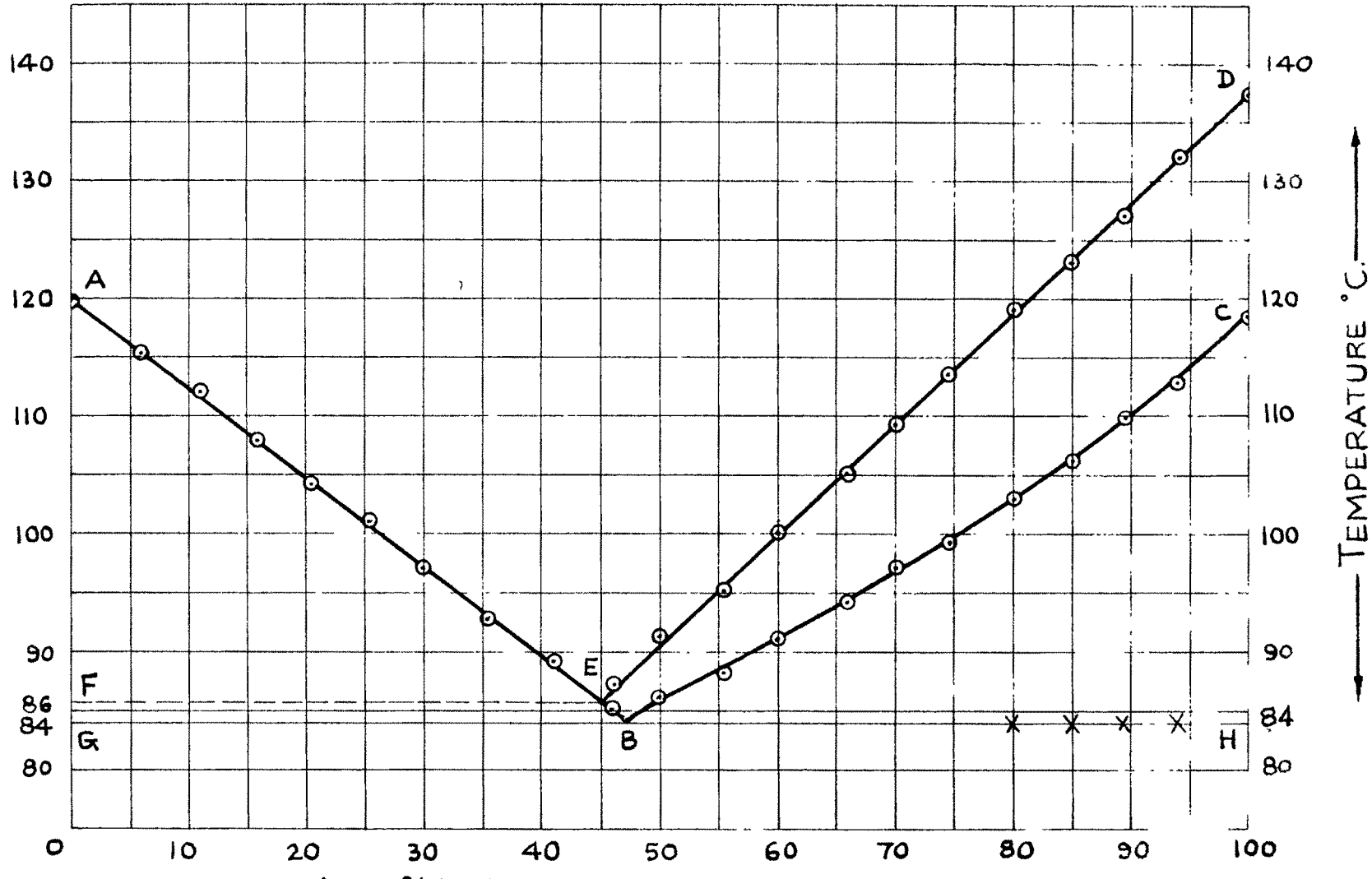

140
130
120
110
100
90
86
84
80
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-ANISAL-p-BROMOANILINE.

FIG. 12

Table 7

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-bromoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
94.84	94.21	113.0	132.0
90.78	89.80	110.0	127.0
86.28	85.23	106.2	123.0
81.10	80.39	103.0	119.0
74.52	74.73	99.0	113.0
69.58	70.28	97.0	109.0
65.83	66.01	94.0	105.0
59.99	60.23	91.0	100.0
54.87	55.59	88.0	95.0
48.91	50.35	86.0	91.0
44.87	46.13	85.0	87.0
39.78	41.08	89.0	-
35.49	35.81	92.8	-
30.00	30.49	97.0	-
25.61	25.94	101.0	-
20.56	20.89	104.0	-
15.97	16.14	108.0	-
11.28	11.39	112.0	-
5.79	5.99	115.4	-
00.00	00.00	120.0	-

Sintering Point = 84.0°C.

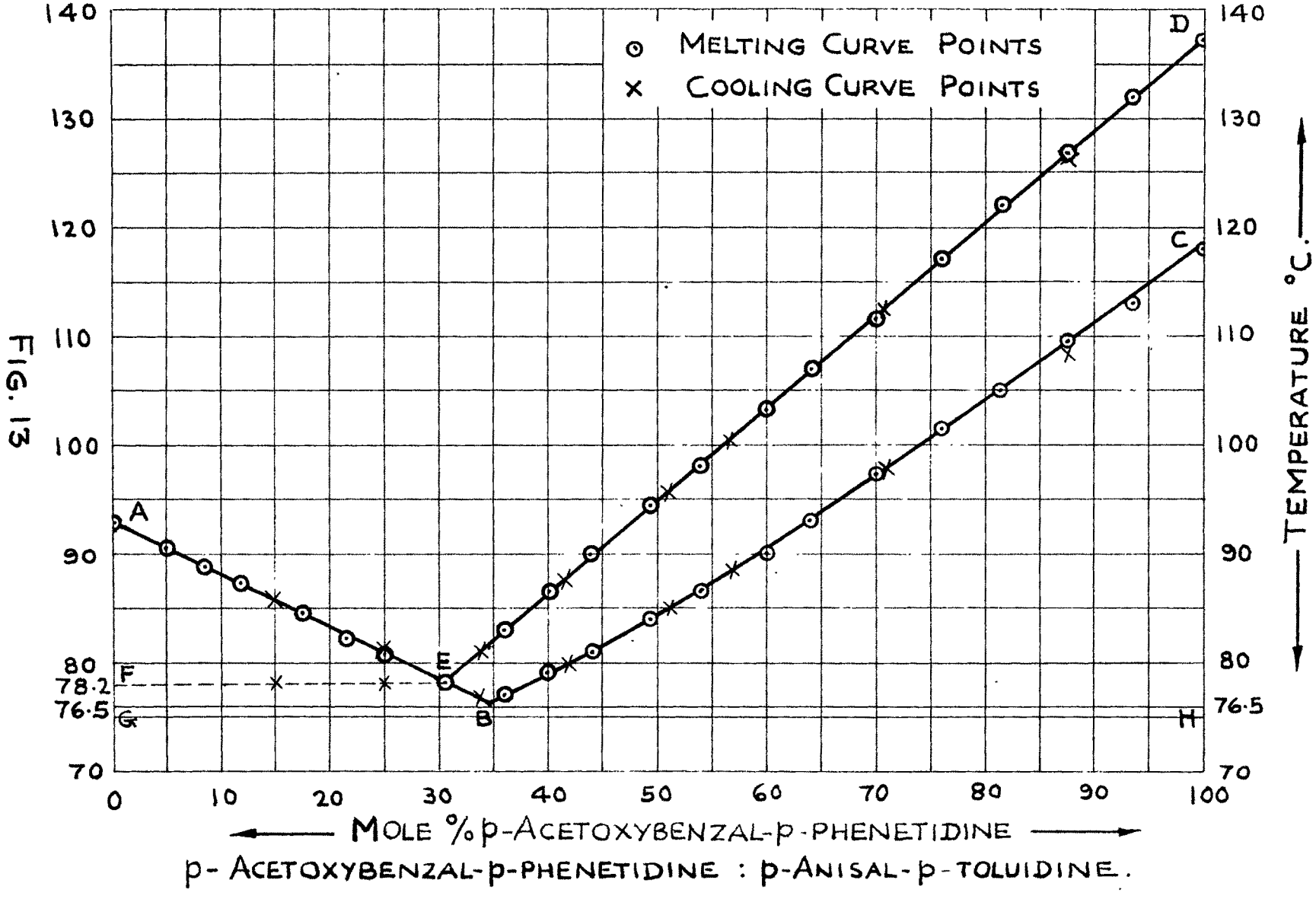

MELTING CURVE POINTS
COOLING CURVE POINTS
A
B
C
D
E
F
G
H
140
130
120
110
100
90
80
78·2
76·5
70
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-ANISAL-p-TOLUIDINE.

FIG. 13

Table 8

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-toluidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
96.03	93.65	113.0	132.2
91.28	87.88	109.5	127.0
85.45	81.56	105.0	121.8
80.15	76.13	101.0	117.0
75.25	70.26	97.6	111.4
70.21	64.48	93.0	107.0
65.12	60.37	90.2	103.0
54.44	54.48	86.6	98.0
55.73	49.71	84.0	94.8
49.80	44.04	81.0	90.0
46.46	39.93	79.0	87.0
40.68	35.96	77.0	83.0
36.39	30.88	73.0	-
30.49	25.16	80.5	-
26.15	21.69	82.4	-
21.13	17.77	84.5	-
14.83	12.16	88.0	-
10.73	8.61	89.0	-
6.73	5.30	91.0	-
00.00	00.00	93.0	-

Sintering Point = 76.5°C.

Table 9

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-toluidine

(Cooling Curve)

Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	118.5	137.5
87.70	108.2	126.8
70.88	97.5	111.8
57.01	88.6	100.1
51.16	85.2	95.6
41.67	80.2	87.5
34.07	76.9	81.0
25.40	81.0	78.2
15.28	86.0	78.2
00.00	93.0	-

Eutectic Point = 76.5°C.

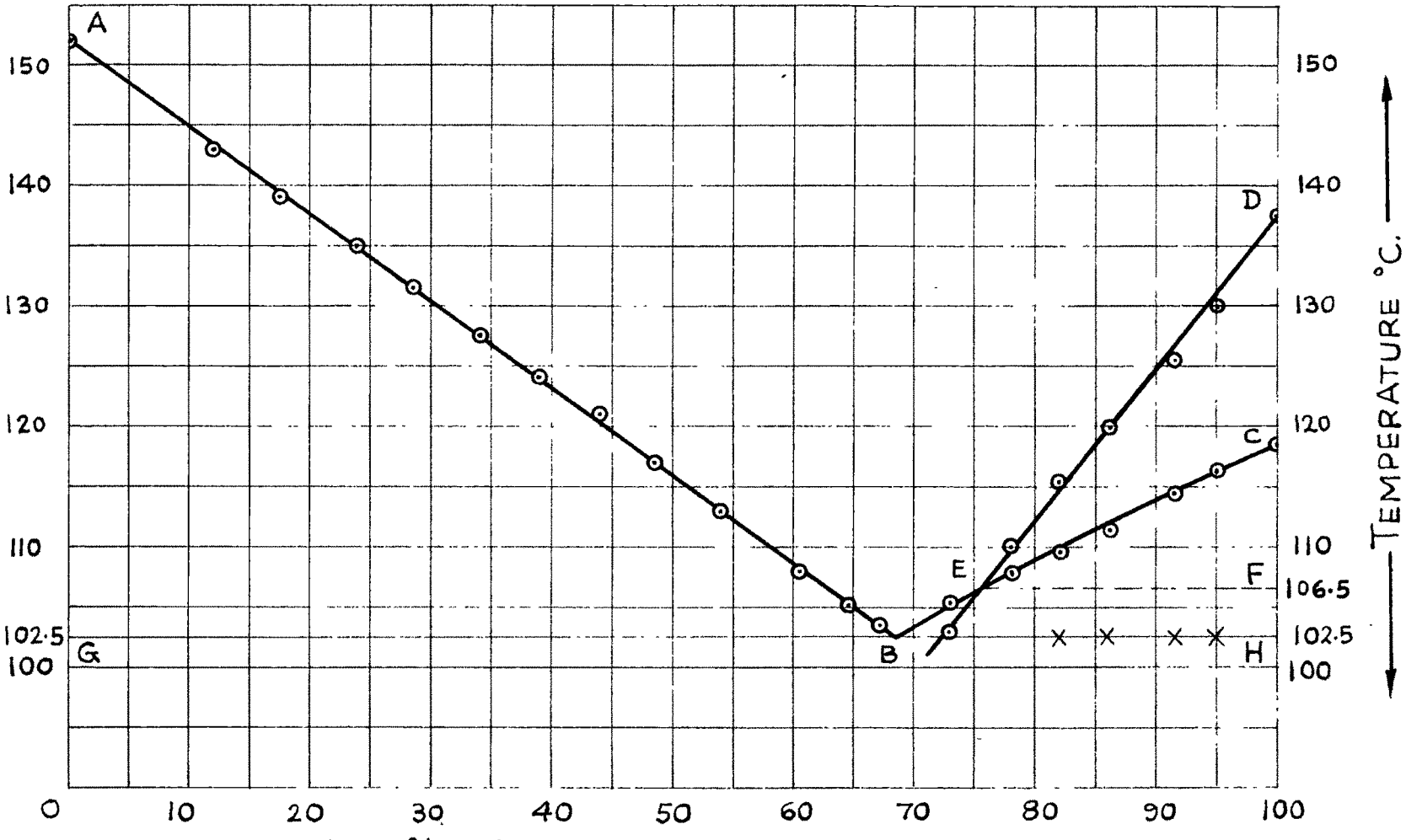

A
B
C
D
E
F
G
H
150
140
130
120
110
106·5
102·5
100
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-ANISAL-p-IODOANILINE.

FIG. 14

Table 10

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-iodoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
96.34	95.13	116.6	130.0
89.60	91.43	114.5	125.5
85.78	86.48	111.5	120.0
79.86	82.17	109.8	115.5
74.84	78.27	108.0	110.0
69.97	72.95	105.5	(103.0)
63.59	67.13	103.0	-
59.50	64.77	104.8	-
57.10	60.53	108.0	-
50.51	54.43	113.0	-
45.66	48.61	117.0	-
40.07	44.00	120.8	-
35.14	38.95	124.0	-
30.84	33.94	127.5	-
25.65	28.86	131.5	-
20.91	23.95	135.0	-
15.52	17.84	139.0	-
10.58	12.43	143.0	-
00.00	00.00	152.0	-

Sintering Point = 102.5°C.

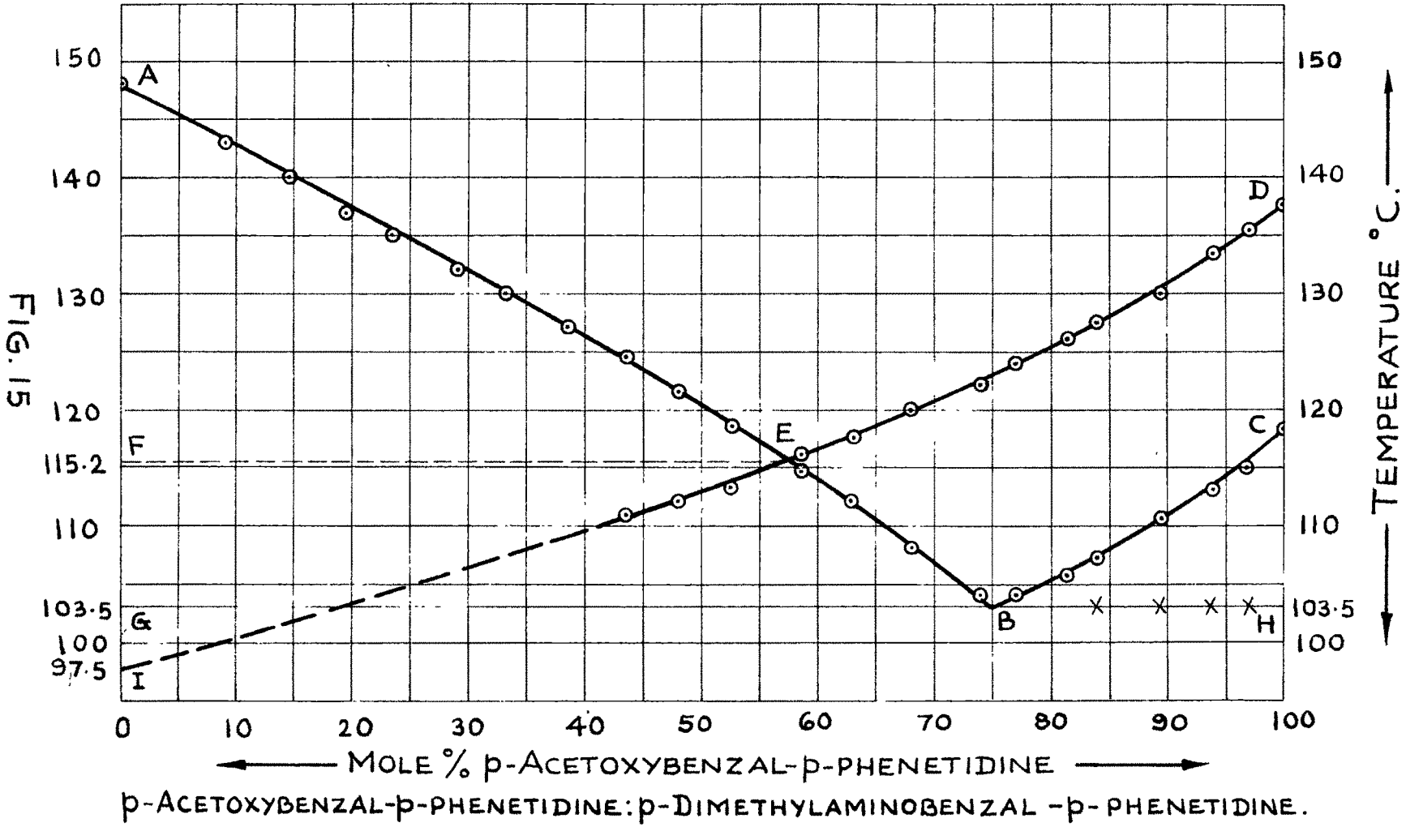


FIG. 15

p-ACETOXYBENZAL-p-PHENETIDINE: p-DIMETHYLAMINOBENZAL -p- PHENETIDINE.

Table 11

p-Acetoxybenzal-p-phenetidine : p-Dimethylaminobenzal-p-phenetidine			
% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
99.01	97.28	115.0	135.5
96.25	94.11	113.0	133.5
91.09	89.60	110.5	130.2
86.18	84.20	107.0	128.0
83.41	81.81	105.6	126.0
79.41	77.54	104.0	124.0
76.15	74.09	104.2	122.0
69.71	68.13	108.0	120.0
64.54	63.17	112.0	117.5
58.84	58.72	115.0	116.0
52.70	52.72	118.4	(113.4)
49.62	48.41	121.6	(112.0)
45.41	43.93	124.5	(111.0)
38.89	38.81	127.0	-
35.49	33.16	130.0	-
30.35	29.20	132.0	-
25.05	23.82	135.0	-
20.32	19.44	137.0	-
15.32	14.53	140.0	-
9.42	8.95	143.0	-
00.00	00.00	148.0	-

Sintering Point = 103.5°C.

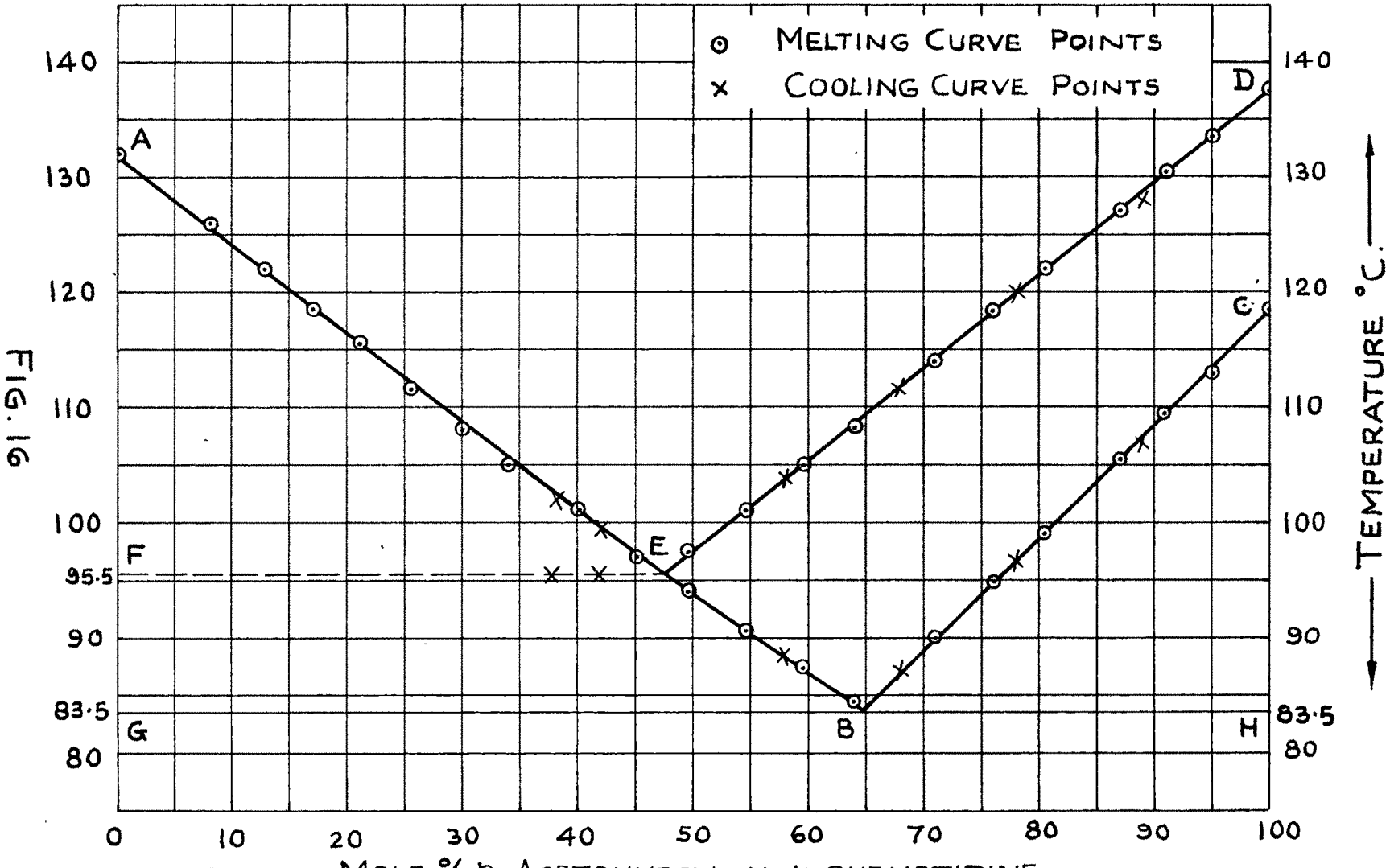

Melting Curve Points
Cooling Curve Points
A
B
C
D
E
F
G
H
140
130
120
110
100
95.5
90
83.5
80
0
10
20
30
40
50
60
70
80
90
100
Temperature °C.
Mole % p-Acetoxybenzal-p-phenetidine
p-Acetoxybenzal-p-phenetidine: p-Nitrobenzal-p- chloroaniline.

Fig. 19

Table 12

p-Acetoxybenzal-p-phenetidine : p-Nitrobenzal-p-chloroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.24	95.04	113.0	133.5
94.64	90.86	109.5	130.5
90.48	87.08	105.8	127.0
84.84	80.63	99.0	122.0
80.41	75.88	95.0	118.5
75.43	70.95	90.0	114.0
70.01	64.63	84.5	108.2
65.94	59.75	87.5	105.0
60.59	54.80	90.8	101.0
54.75	49.80	94.0	97.5
51.09	45.46	97.0	-
46.02	40.33	101.0	-
39.18	34.40	104.8	-
35.14	30.02	108.0	-
30.70	25.81	111.6	-
24.71	20.94	115.0	-
20.56	17.00	118.5	-
15.92	12.98	122.0	-
10.18	8.44	126.0	-
00.00	00.00	132.0	-

Sintering Point = 83.5°C.

Table 13

p-Acetoxybenzal-p-phenetidine : p-Nitrobenzal-p-chloroaniline

(Cooling Curve)

Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	118.5	137.5
88.91	107.4	128.3
78.41	96.8	120.0
68.41	87.7	111.5
58.16	88.2	103.8
42.10	99.5	95.5
38.20	102.2	95.5
00.00	132.0	-

Eutectic Point = 83.5°C.

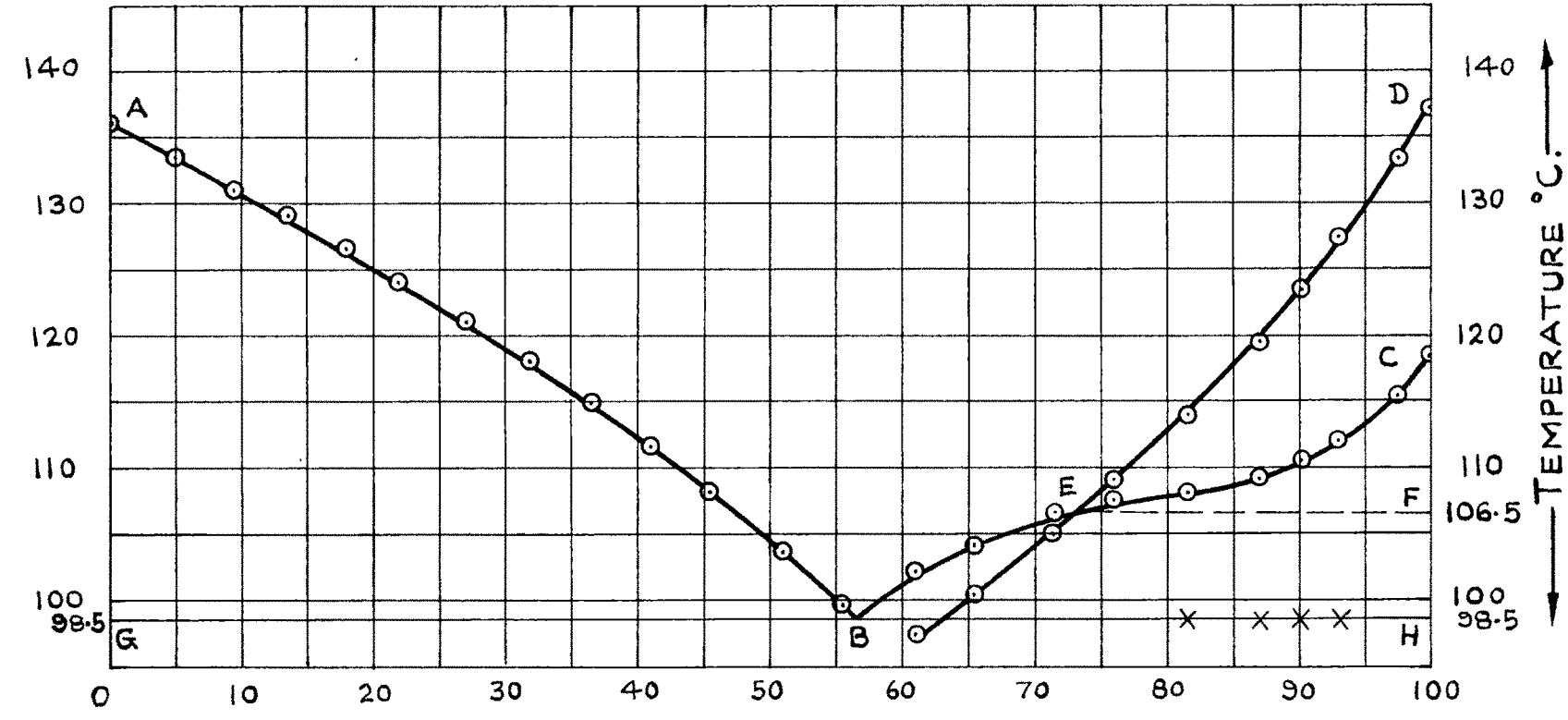

140
130
120
110
100
98·5
A
B
C
D
E
F
G
H
106·5
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE:p-DIMETHYLAMINOBENZAL-p-FLUOROANILINE.

FIG. 17

Table 14

p-Acetoxybenzal-p-phenetidine : p-Dimethylaminobenzal-p-fluoroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.46	97.52	115.5	133.5
94.79	93.03	112.0	127.5
91.86	90.04	110.0	123.5
89.84	87.04	109.0	119.6
85.11	81.70	108.0	113.8
79.50	76.47	107.5	109.0
74.52	71.66	106.5	(105.0)
70.06	65.97	104.0	(100.5)
65.79	61.35	102.0	(97.8)
60.59	56.18	99.0	-
55.04	51.04	103.5	-
49.16	45.90	108.0	-
45.07	41.18	111.5	-
40.23	36.60	115.0	-
36.08	32.08	118.0	-
30.80	27.15	121.0	-
25.16	22.18	124.0	-
21.26	18.43	126.5	-
16.03	13.79	129.0	-
11.48	9.76	131.0	-
6.98	5.24	133.5	-
00.00	00.00	136.0	-

Sintering Point = 98.5°C.

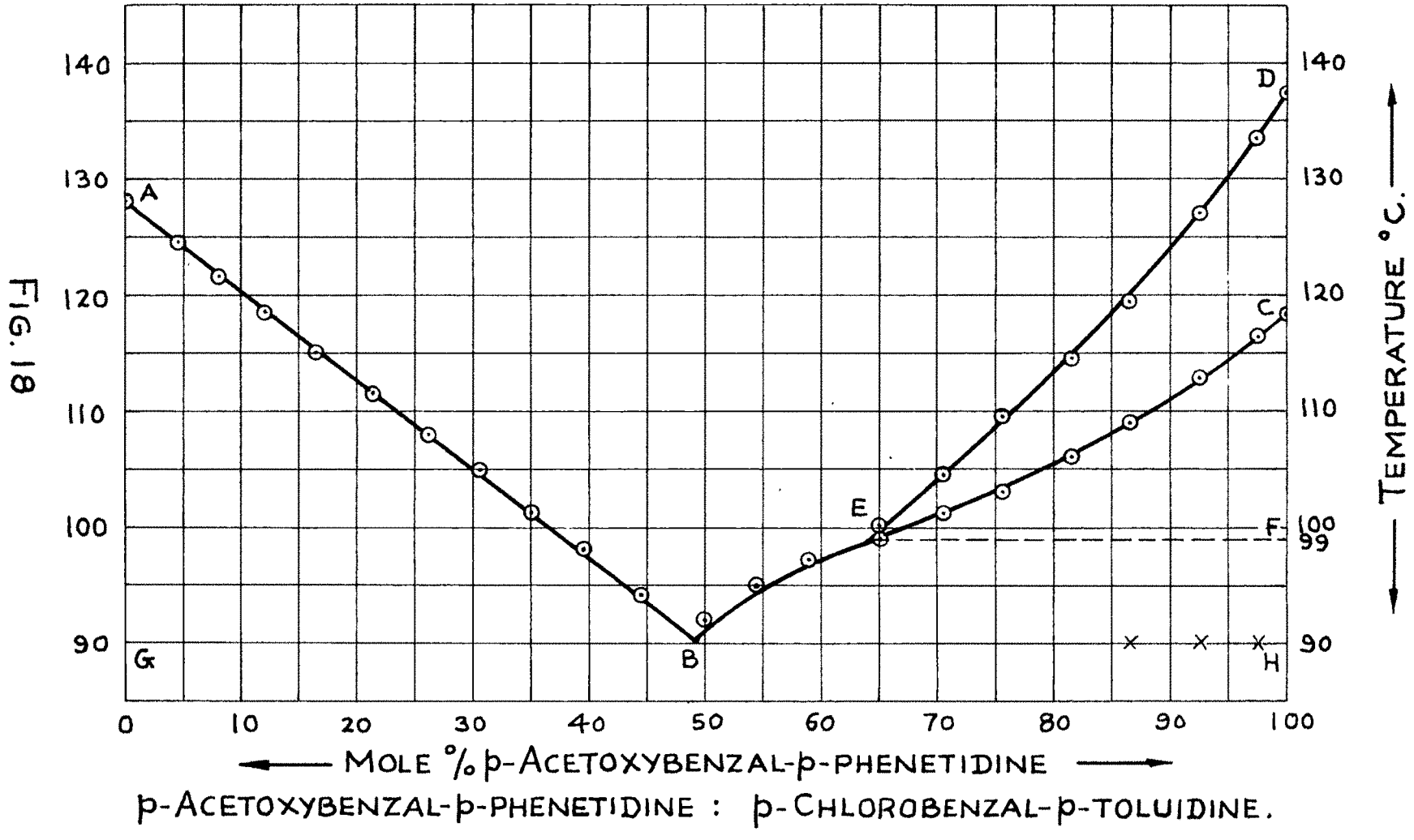

140
130
120
110
100
90
A
B
C
D
E
F
G
H
99
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-CHLOROBENZAL-p-TOLUIDINE.

FIG. 18

Table 15

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-toluidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.86	97.54	116.5	133.5
94.77	92.51	113.0	127.0
90.28	86.72	109.0	119.5
85.69	81.89	106.0	114.5
80.56	75.80	103.0	109.5
75.37	70.57	101.0	104.5
69.79	64.98	99.0	100.2
64.97	59.43	97.0	-
59.89	54.55	95.0	-
55.46	50.22	92.0	-
49.76	44.50	94.0	-
44.91	39.62	98.0	-
40.14	35.31	101.0	-
36.63	30.82	105.0	-
31.20	26.42	108.2	-
25.61	21.78	111.6	-
19.76	16.66	115.0	-
14.78	12.41	118.5	-
10.16	8.42	121.5	-
6.72	4.58	124.5	-
00.00	00.00	128.0	-

Sintering Point = 90.0°C.

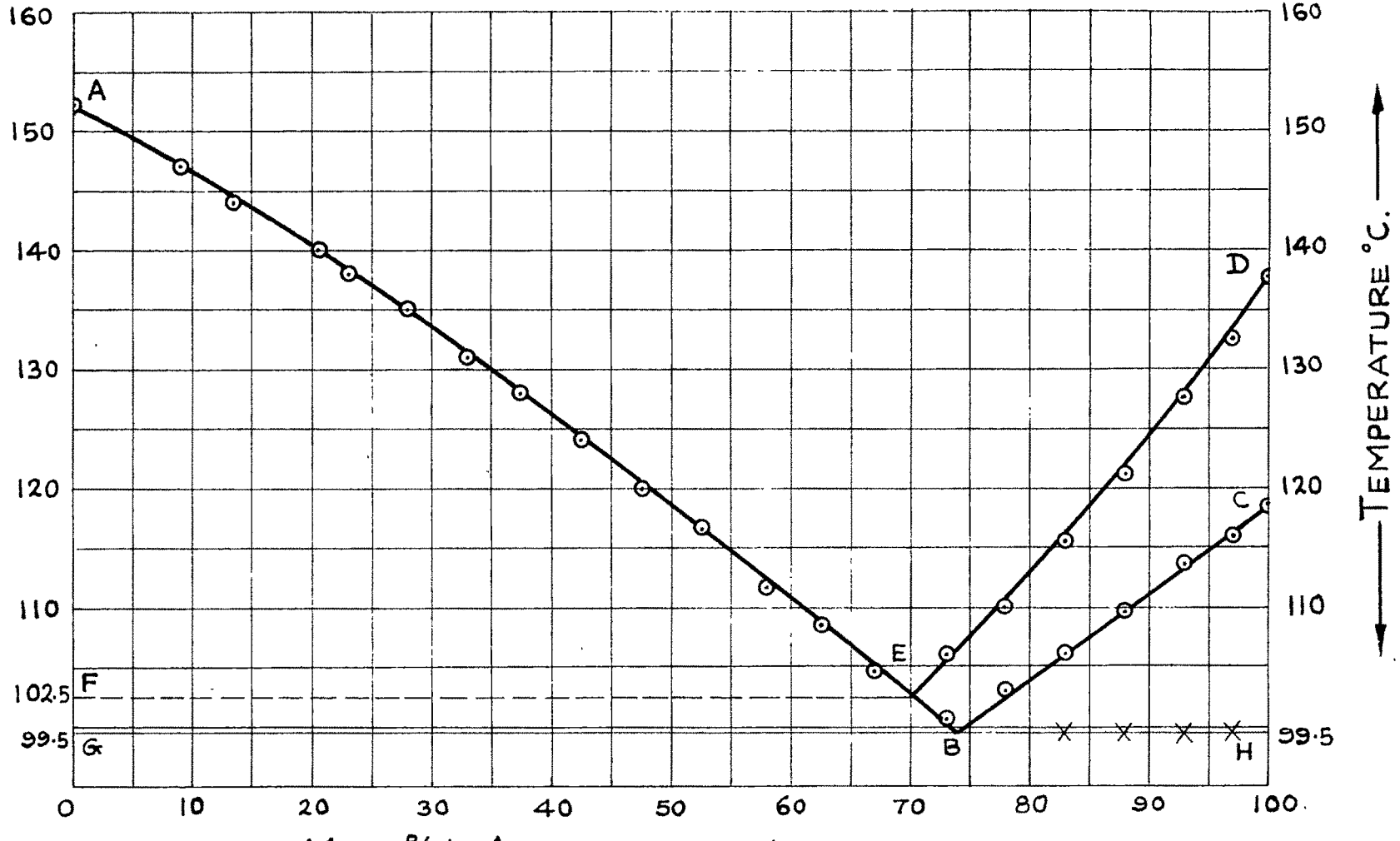

160
150
140
130
120
110
102.5
99.5
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-DIMETHYLAMINOBENZAL-p-CHLOROANILINE.

FIG. 19

Table 16

p-Acetoxybenzal-p-phenetidine : p-Dimethylaminobenzal-p-chloroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
97.82	97.12	116.0	132.5
93.89	93.37	113.5	127.5
90.53	88.28	109.5	121.0
84.70	82.96	106.0	115.5
80.85	78.02	103.0	110.0
75.71	73.07	100.0	106.0
70.37	67.33	104.5	-
64.85	62.58	108.5	-
60.89	58.37	111.5	-
54.76	52.52	116.5	-
49.66	47.56	120.0	-
45.02	42.72	124.0	-
40.07	37.73	128.0	-
35.14	33.13	131.0	-
30.35	28.46	135.0	-
24.71	22.94	138.0	-
19.76	20.60	140.0	-
14.87	13.87	144.0	-
10.28	9.39	147.0	-
00.00	00.00	152.0	-

Sintering Point = 99.5°C.

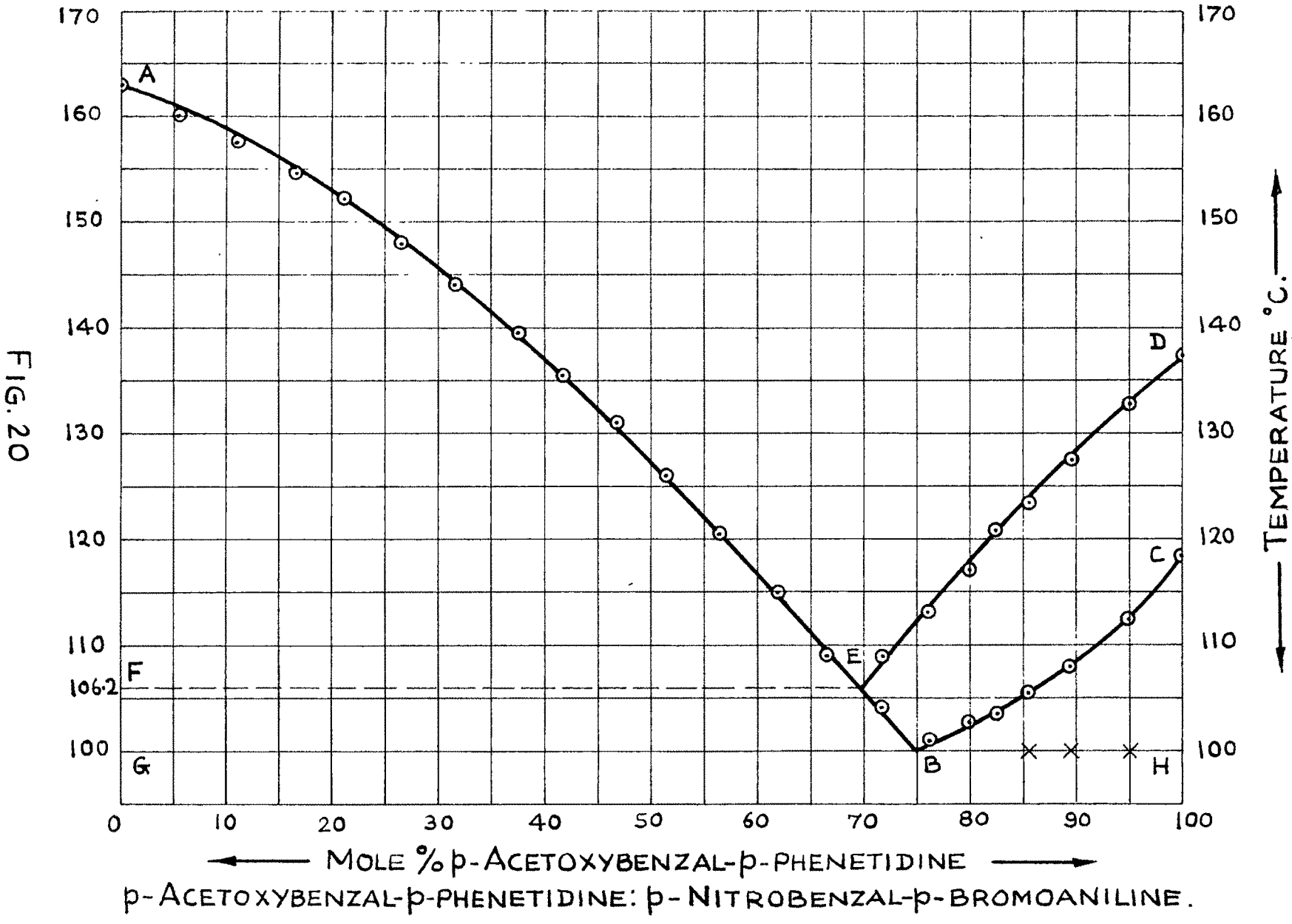

170
160
150
140
130
120
110
106·2
100
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: p-NITROBENZAL-p-BROMOANILINE.

FIG. 20

Table 17

p-Acetoxybenzal-p-phenetidine : p-Nitrobenzal-p-bromoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
94.19	95.19	112.5	132.6
89.04	89.60	108.0	127.5
85.07	85.74	105.5	123.5
82.94	82.52	103.5	121.0
79.03	80.37	102.8	117.0
74.73	76.33	101.0	113.0
70.17	71.85	104.2	109.0
65.06	66.74	109.0	-
60.53	62.05	115.0	-
55.24	56.79	120.5	-
49.75	51.64	126.0	-
46.02	46.80	131.0	-
40.28	41.79	135.5	-
35.74	37.56	139.6	-
30.45	31.67	144.0	-
25.51	26.74	148.0	-
20.01	21.17	152.0	-
15.46	16.55	154.6	-
10.23	11.05	157.5	-
5.39	5.74	160.0	-
00.00	00.00	163.0	-

Sintering Point = 100.0°C.

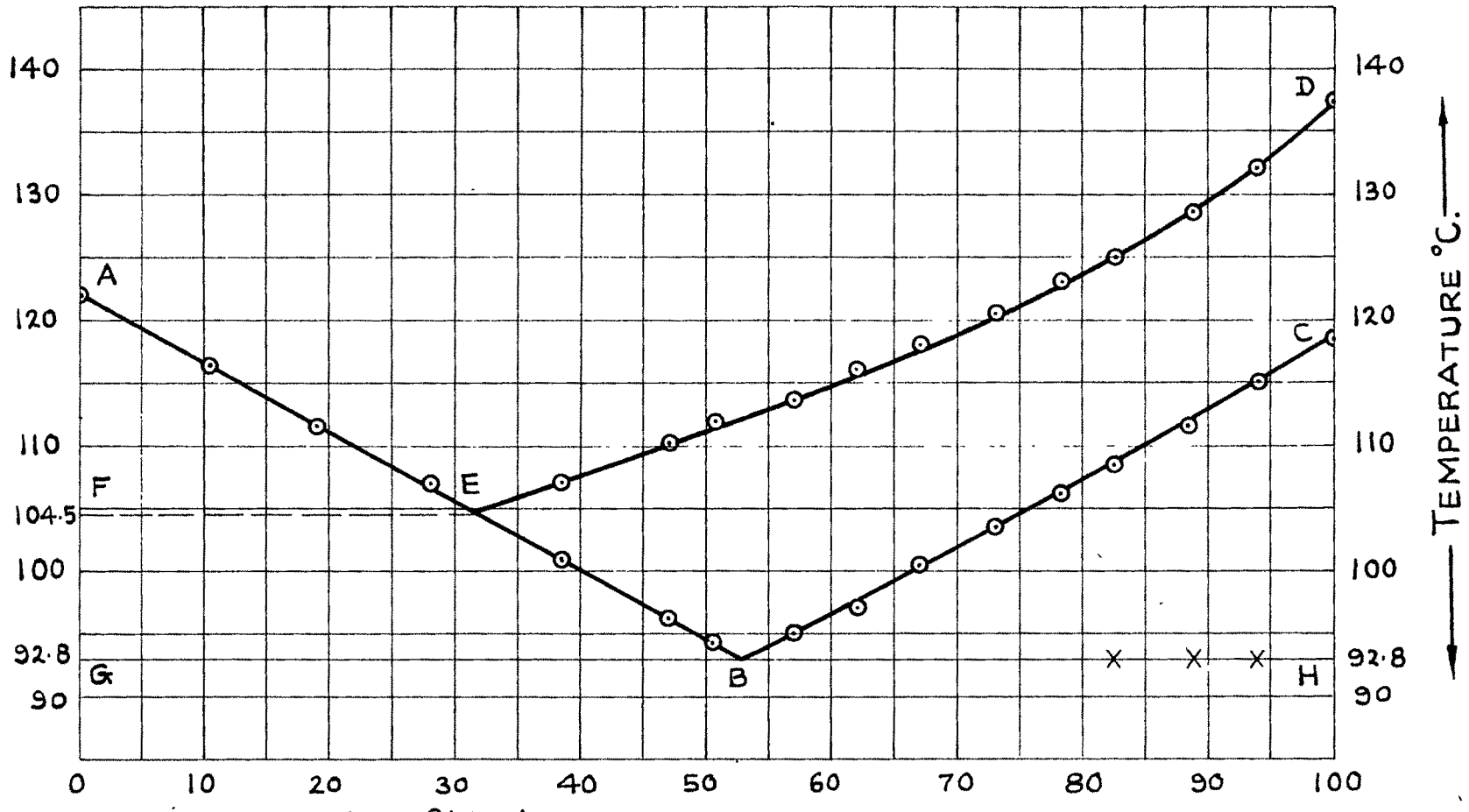

140
130
120
110
104.5
100
92.8
90
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
TEMPERATURE °C.
p-ACETOXYBENZAL-p-PHENETIDINE: p-CHLOROBENZAL-p-PHENETIDINE.

FIG. 21

Table 18

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-phenetidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
94.93	94.35	114.6	132.0
89.66	88.57	111.5	128.0
85.23	82.56	108.6	125.0
80.50	78.16	106.2	123.2
75.51	73.21	103.4	120.5
70.31	67.39	100.5	118.0
65.12	62.21	97.2	116.0
59.85	57.29	95.0	114.0
55.63	51.37	94.0	112.0
49.46	47.08	96.0	110.4
41.58	38.79	101.0	107.2
30.70	28.49	107.0	-
21.06	19.30	111.5	-
11.68	10.52	116.5	-
00.00	00.00	122.0	-

Sintering Point = 92.8°C.

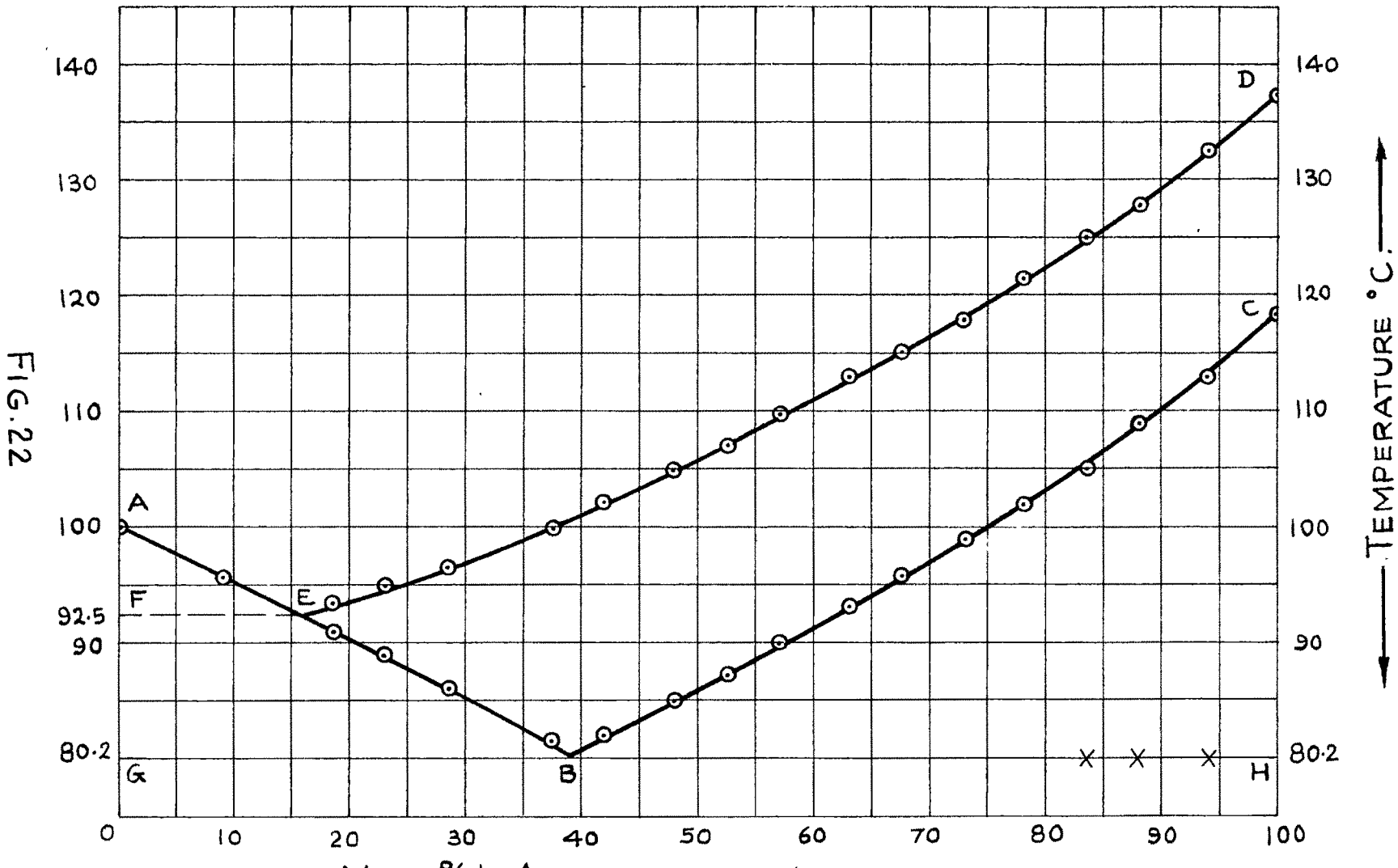

140
130
120
110
100
92·5
90
80·2
A
F
E
D
C
B
G
H
X X X
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: p-ETHOXYBENZAL-p-CHLOROANILINE.

FIG. 22

Table 19

p-Acetoxybenzal-p-phenetidine : p-Ethoxybenzal-p-chloroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
93.89	94.32	113.0	132.8
89.89	88.22	109.0	128.0
84.45	83.90	105.0	125.0
79.47	78.41	102.0	121.5
74.18	73.08	99.0	118.0
70.17	67.79	96.0	115.0
65.03	63.36	93.0	113.0
59.65	57.48	90.0	110.0
55.40	52.86	87.0	107.0
50.20	48.00	85.0	105.0
43.96	42.26	82.0	102.0
39.76	37.54	81.5	100.0
30.25	28.49	86.0	96.8
25.12	23.46	89.0	95.0
20.06	18.88	91.0	93.0
10.18	9.38	95.5	-
00.00	00.00	100.0	-

Sintering Point = 80.22°C.

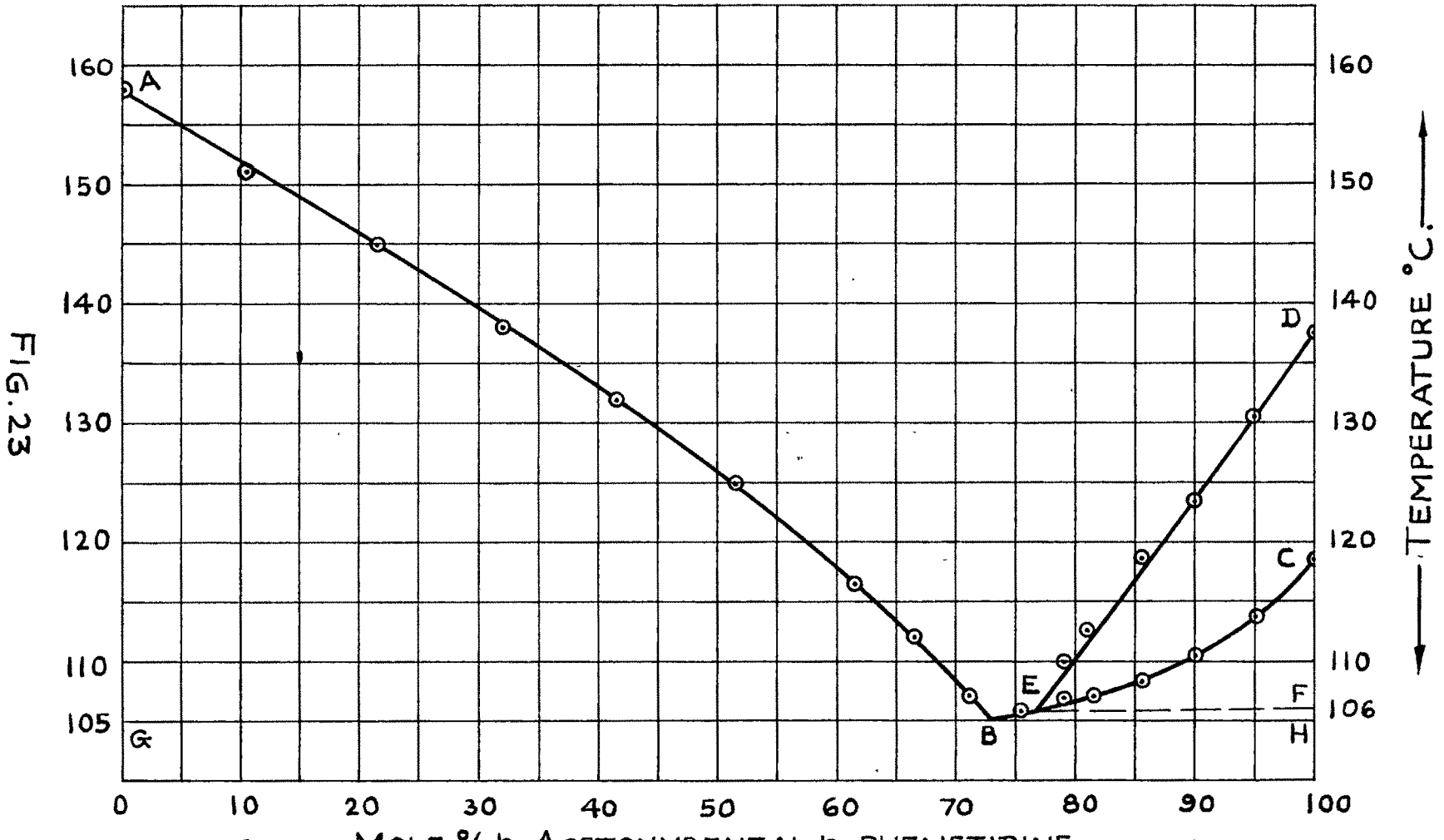

160
150
140
130
120
110
105
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
106
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: p-DIMETHYLAMINOBENZAL-p-BROMOANILINE.

FIG. 23

Table 20

P-Acetoxybenzal-p-phenetidine : p-Dimethylaminobenzal-p-bromoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
95.41	95.30	114.2	130.5
89.89	90.28	110.5	123.5
84.84	85.72	108.0	118.5
79.77	81.08	107.0	112.5
78.81	79.07	107.0	110.0
74.52	75.82	106.0	-
70.17	71.25	107.0	-
65.43	66.76	112.0	-
60.73	61.86	116.4	-
50.46	51.81	125.0	-
40.53	41.80	132.0	-
30.70	31.96	138.0	-
20.36	21.54	145.0	-
10.18	10.74	151.2	-
00.00	00.00	158.0	-

Sintering Point = 105.0°C.

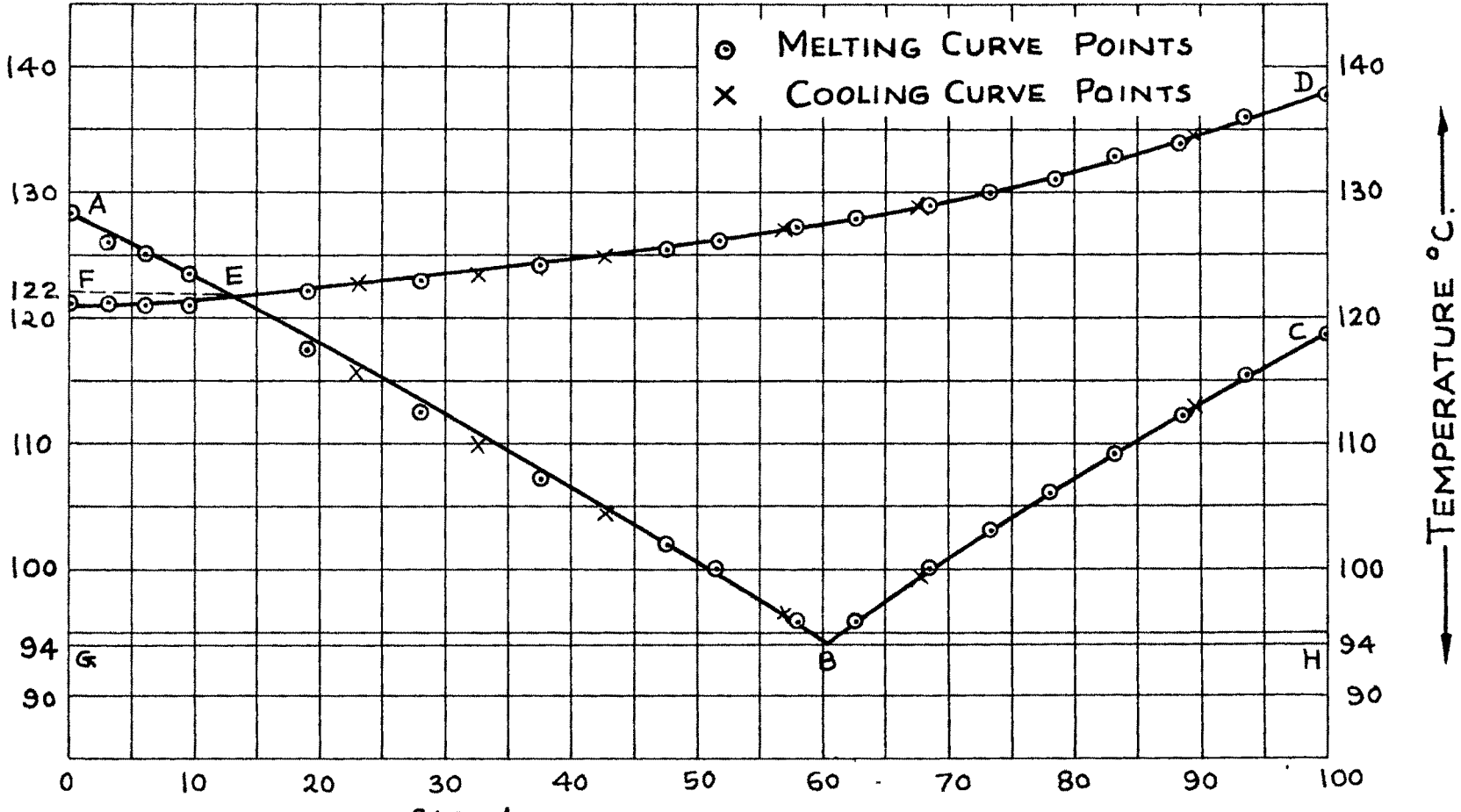

Melting Curve Points
Cooling Curve Points
140
130
122
120
110
100
94
90
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
Temperature °C.
Mole % p-Acetoxybenzal-p-phenetidine
p-Acetoxybenzal-p-phenetidine : p-Anisal-p-phenetidine.

FIG. 24

Table 21

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-phenetidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
96.34	93.96	115.5	136.0
90.53	88.67	112.0	134.0
85.07	83.16	109.0	133.0
80.09	78.20	106.0	131.0
75.56	73.13	103.0	130.0
69.87	68.31	100.0	129.0
65.16	62.79	96.0	128.0
60.13	57.77	96.0	127.0
54.87	51.74	100.0	126.0
50.46	47.65	102.0	125.5
40.48	37.71	107.0	124.0
30.49	28.48	112.6	123.0
21.06	19.45	117.5	122.0
10.58	9.54	123.4	(121.0)
7.20	6.09	125.0	(121.2)
3.40	3.02	126.2	(121.4)
00.00	00.00	128.5	(121.5)

Sintering Point = 94.0°C.

Table 22

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-phenetidine

(Cooling Curve)

Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	118.5	137.5
89.54	112.5	134.2
67.90	99.5	129.0
57.00	96.4	127.0
42.56	104.0	124.8
32.75	110.0	123.5
23.17	115.6	122.7
00.00	128.5	(121.5)

Eutectic Point = 94.0 °C.

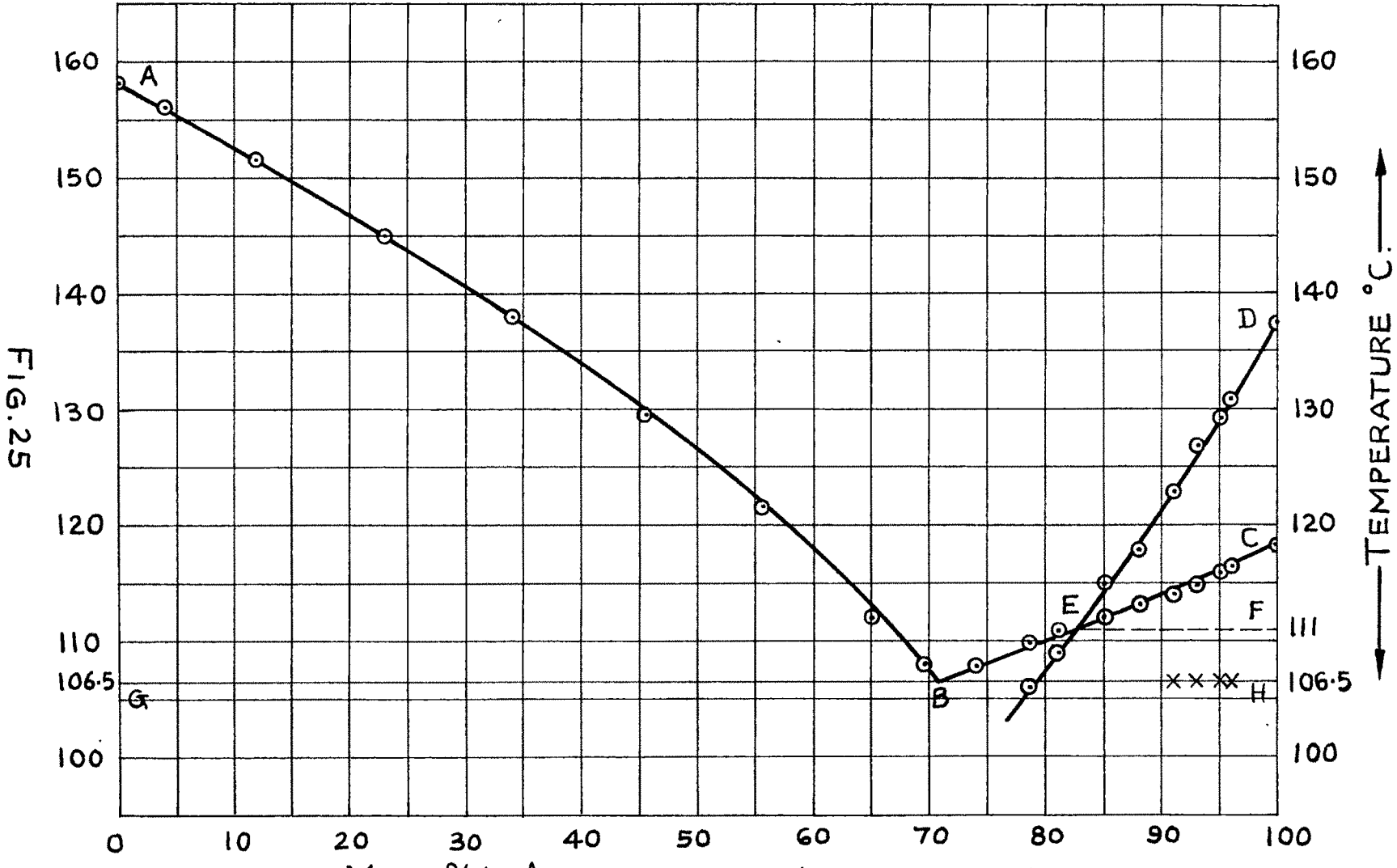

160
150
140
130
120
110
106·5
100
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: p-DIMETHYLAMINOBENZAL-p-IODOANILINE.

FIG. 25

Table 23

p-Acetoxybenzal-p-phenetidine : p-Dimethylaminobenzal-p-iodoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
94.99	96.01	116.6	131.0
95.30	95.28	116.0	129.5
92.55	93.35	115.0	127.2
89.56	91.16	114.0	123.0
84.57	88.00	113.0	118.0
82.60	85.16	111.8	115.2
79.21	81.25	111.0	(109.0)
76.15	78.83	110.0	(106.0)
71.03	74.44	107.6	-
65.12	69.63	108.0	-
61.09	65.48	112.0	-
50.41	55.63	121.5	-
40.33	45.64	129.5	-
29.27	34.47	137.8	-
19.56	23.37	145.0	-
10.08	12.31	151.5	-
2.14	4.08	156.0	-
00.00	00.00	158.0	-

Sintering Point = 106.5°C.

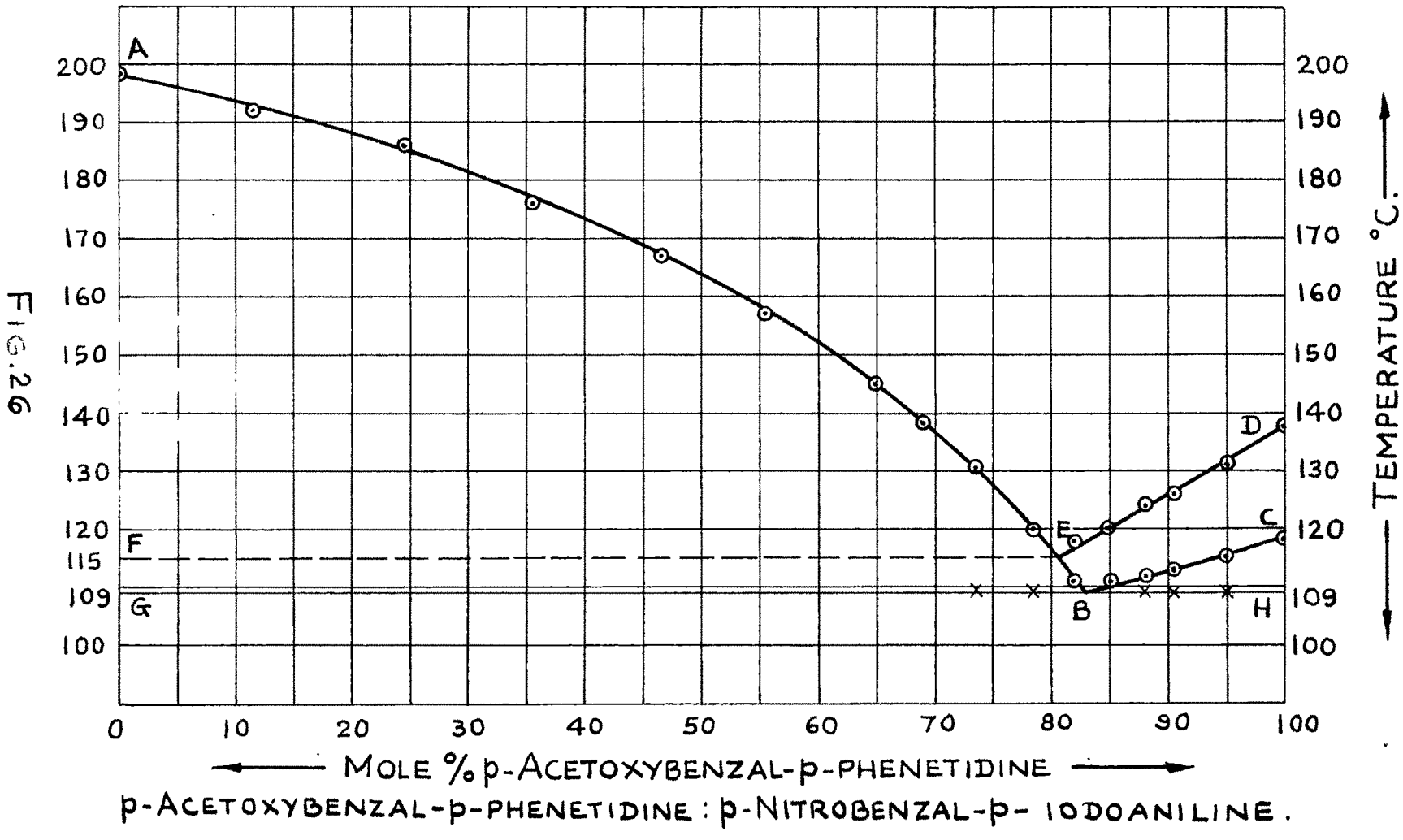

A
B
C
D
E
F
G
H
200
190
180
170
160
150
140
130
120
115
109
100
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-NITROBENZAL-p- IODOANILINE.

FIG. 26

Table 24

p-Acetoxybenzal-p-phenetidine : p-Nitrobenzal-p-iodoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
95.13	95.32	115.8	131.0
89.46	90.80	113.0	126.0
88.98	88.04	112.0	124.0
87.46	85.12	110.0	120.0
79.86	82.64	111.0	118.0
75.71	78.50	120.0	-
69.29	73.82	130.4	-
65.07	69.34	138.0	-
60.23	65.00	145.0	-
50.65	55.93	157.0	-
40.18	46.60	167.2	-
31.10	35.72	176.0	-
20.71	24.60	186.0	-
9.73	11.95	192.0	-
00.00	00.00	198.0	-

Sintering Point = 109.0°C.

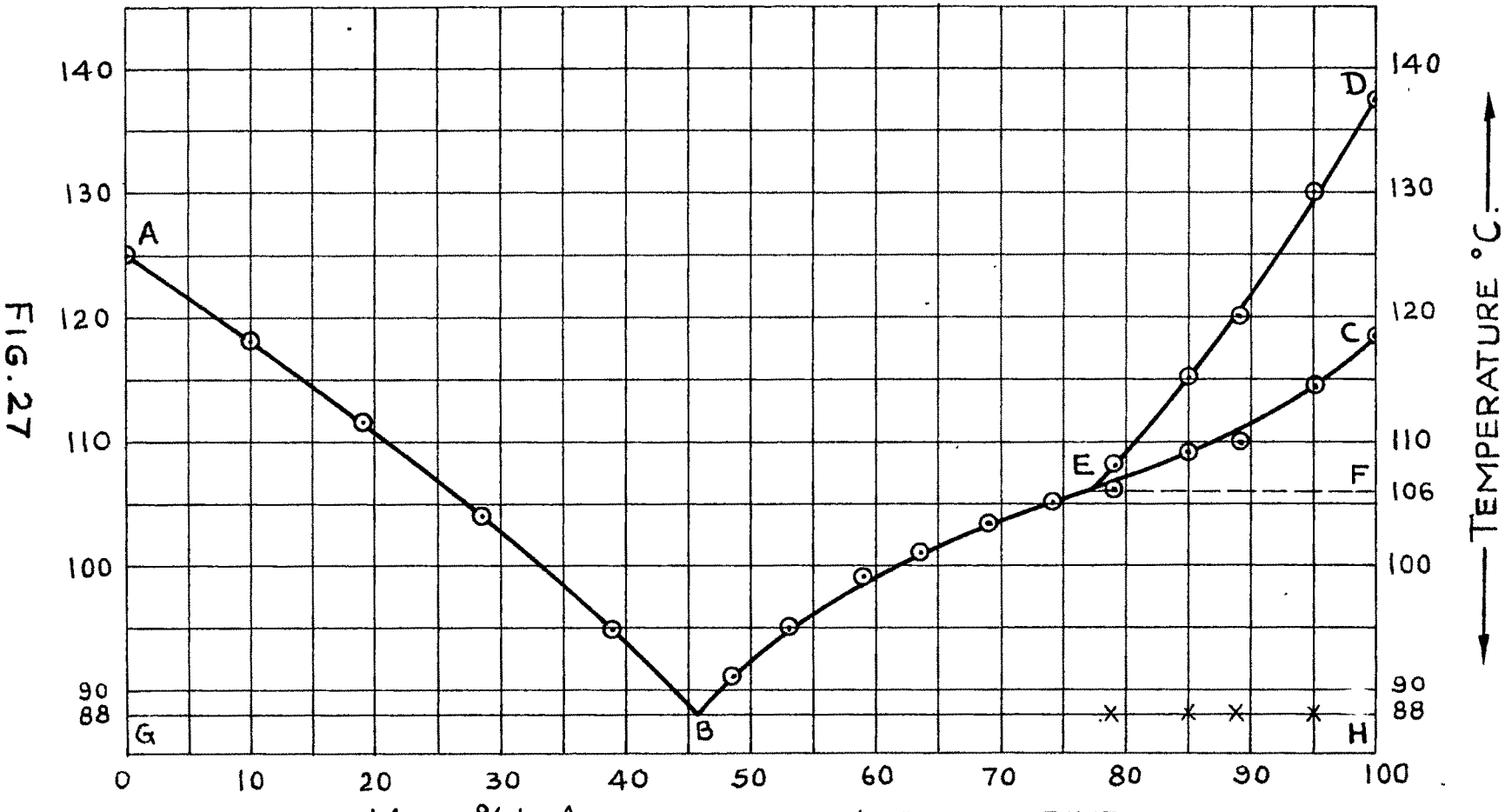

140
130
120
110
100
90
88
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE.
p-ACETOXYBENZAL-p-PHENETIDINE: p-TOLUAL-p-BROMOANILINE.

FIG. 27

Table 25

p-Acetoxybenzal-p-phenetidine : p-Tolual-p-bromoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
94.69	94.88	114.5	130.0
89.76	89.08	110.0	120.0
85.74	85.09	109.0	115.0
80.05	79.29	106.0	108.0
75.01	74.32	105.0	-
70.31	69.37	103.4	-
64.55	63.92	101.2	-
59.39	59.39	99.0	-
54.61	53.02	95.0	-
49.76	48.82	91.0	-
39.49	39.16	95.0	-
29.80	28.90	104.0	-
19.72	19.25	111.4	-
10.68	10.35	118.5	-
00.00	00.00	125.0	-

Sintering Point = 88.0 °C.

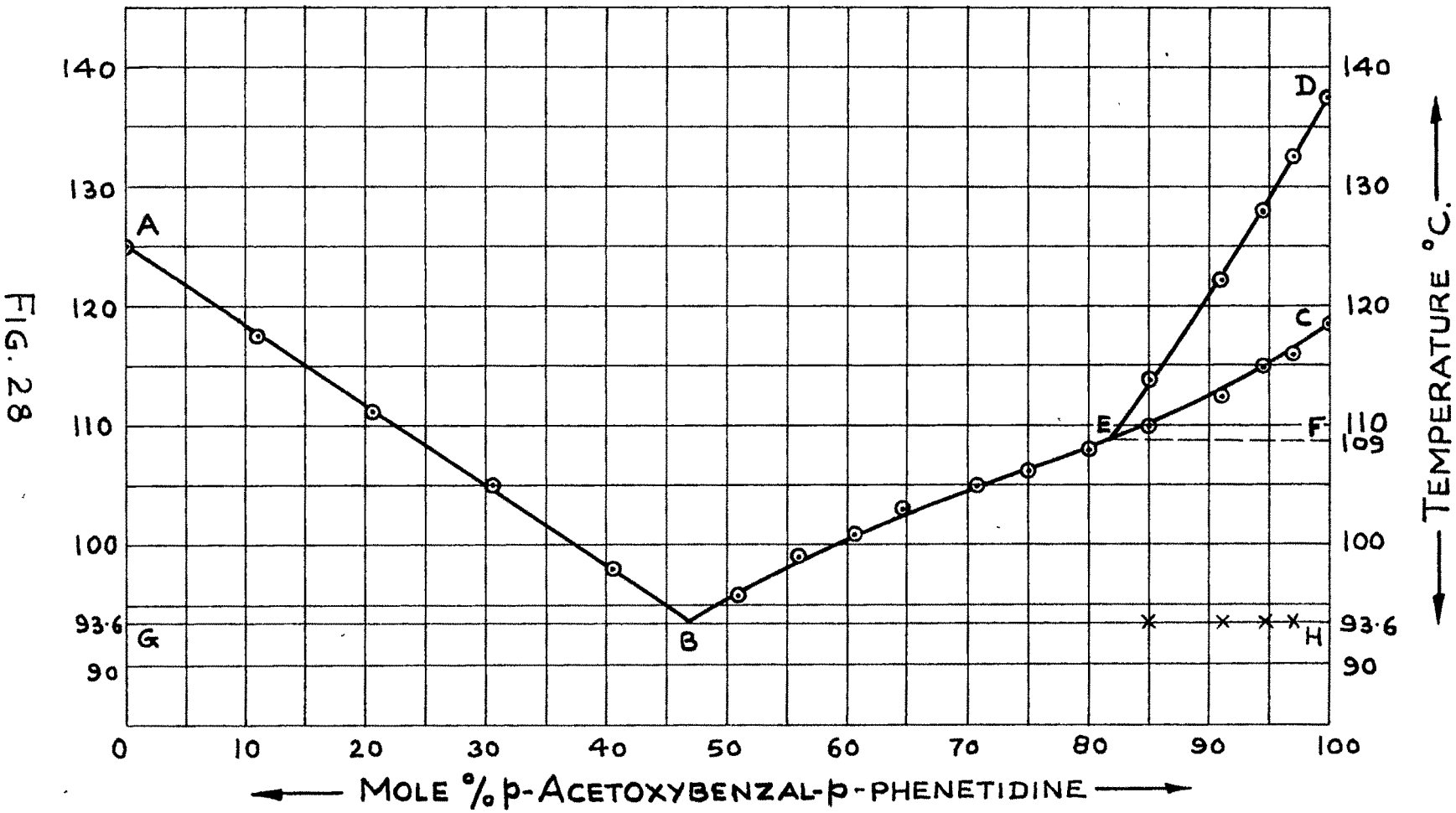

140
130
120
110
100
93·6
90
A
B
C
D
E
F
G
H
109
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p PHENETIDINE : p-CHLOROBENZAL-p-BROMOANILINE.

FIG. 28

Table 26

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-bromoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.19	97.29	116.0	132.8
95.08	94.69	115.0	128.0
90.28	90.53	112.6	122.0
84.61	85.17	110.0	114.0
80.79	80.39	108.0	-
75.01	75.11	106.2	-
71.37	70.69	105.0	-
65.58	64.62	103.0	-
61.13	60.91	101.0	-
56.91	56.24	99.0	-
50.29	50.98	96.0	-
40.07	40.77	98.0	-
29.70	30.60	105.0	-
20.26	20.82	111.2	-
8.95	10.99	117.6	-
00.00	00.00	125.0	-

Sintering Point = 93.6°C.

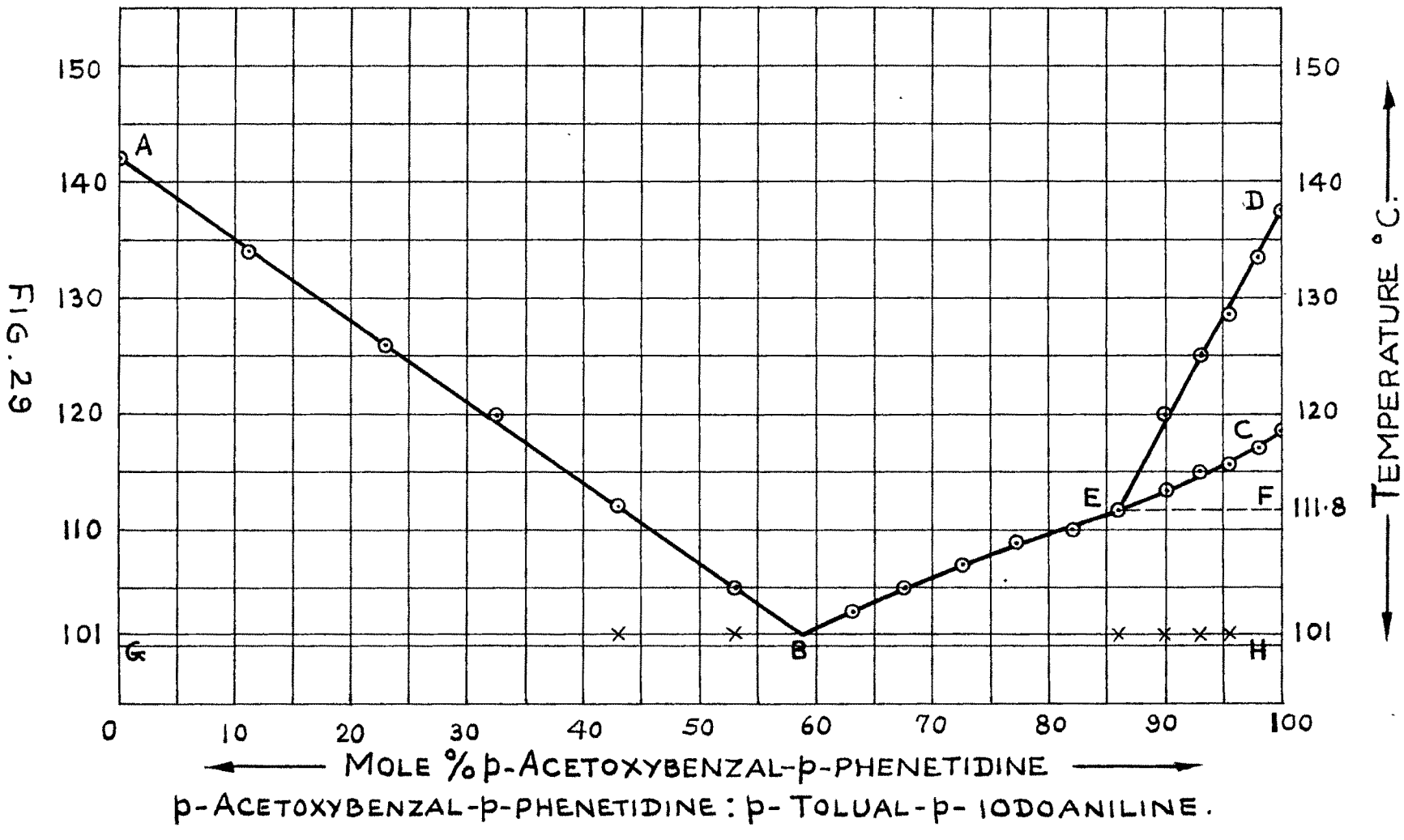

150
140
130
120
110
101
A
B
C
D
E
F
G
H
111·8
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-TOLUAL-p-IODOANILINE.

FIG. 29

Table 27

p-Acetoxybenzal-p-phenetidine : p-Tolual-p-iodoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
97.30	98.26	117.0	133.6
94.54	95.52	115.8	128.8
92.78	93.16	115.0	125.0
89.76	90.18	113.0	120.0
84.70	86.04	111.8	-
79.77	82.06	110.2	-
75.97	77.09	109.0	-
70.42	72.66	107.0	-
65.43	67.78	105.0	-
60.59	63.40	103.0	-
49.80	53.03	105.0	-
40.28	43.33	112.0	-
30.14	32.86	120.2	-
21.31	23.32	126.0	-
9.88	11.09	134.0	-
00.00	00.00	142.0	-

Sintering Point = 101.0°C.

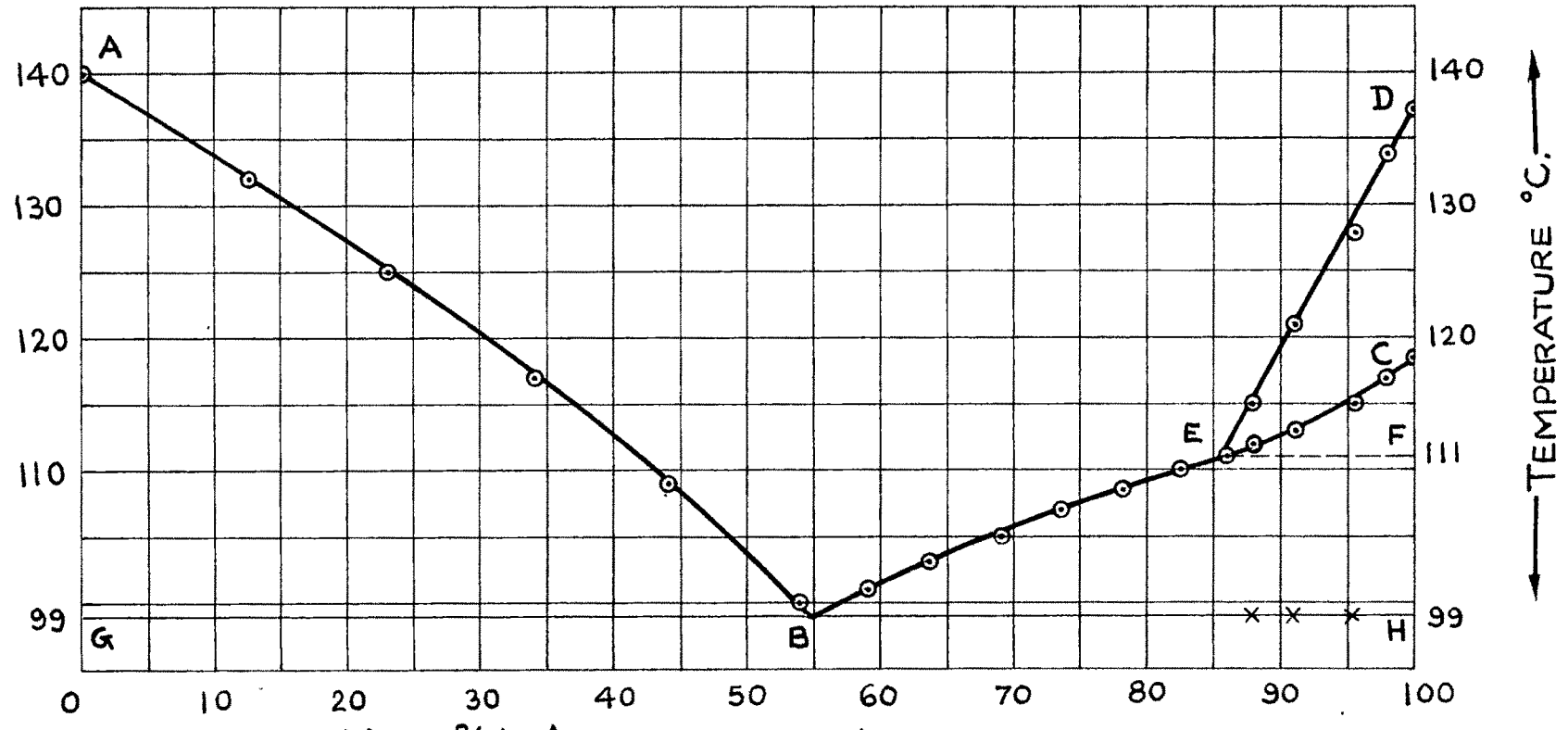

A
B
C
D
E
F
G
H
140
130
120
110
99
111
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: p-CHLOROBENZAL-p-IODOANILINE.

FIG. 30

Table-28

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-iodoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
97.62	98.41	117.0	134.0
94.93	95.79	115.0	128.0
89.95	91.11	113.0	121.0
87.76	88.62	112.0	115.0
83.95	86.48	111.0	-
79.77	82.50	110.0	-
74.92	78.21	108.6	-
69.87	73.70	107.0	-
66.74	69.21	105.4	-
59.94	63.84	103.0	-
55.48	59.04	101.0	-
49.66	54.30	100.2	-
39.82	43.98	109.0	-
30.00	34.12	117.0	-
19.96	23.26	125.0	-
10.92	12.88	132.2	-
00.00	00.00	140.0	-

Sintering Point = 99.0°C.

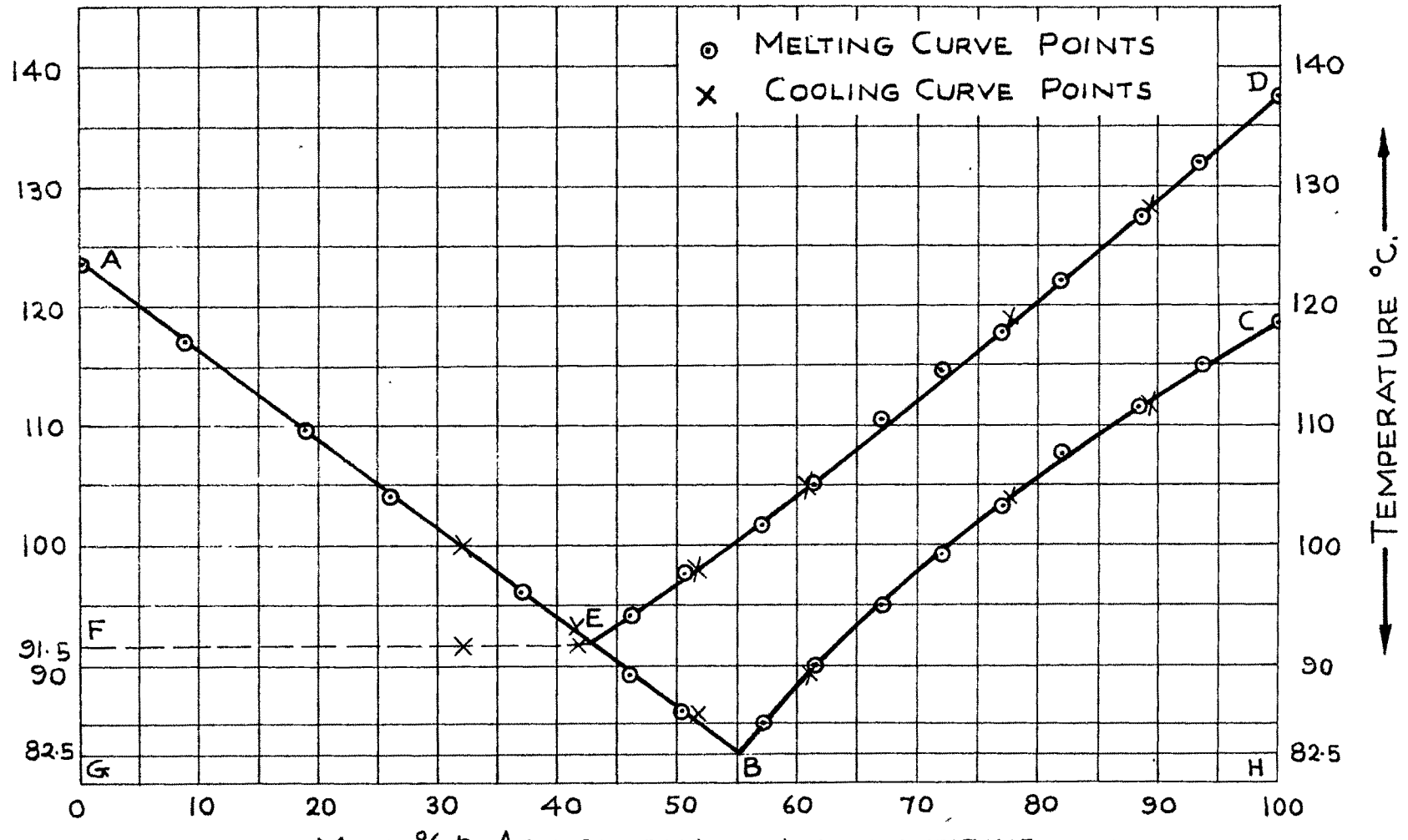

MELTING CURVE POINTS
COOLING CURVE POINTS
A
B
C
D
E
F
G
H
140
130
120
110
100
91·5
90
82·5
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-CHLOROBENZAL-p-ANISIDINE.

FIG. 31

Table 29

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-anisidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
95.59	93.65	115.0	132.0
90.35	88.65	111.5	127.5
85.96	82.37	107.5	122.0
80.85	77.38	103.2	118.0
75.70	72.41	99.0	114.5
71.06	66.94	94.8	110.5
65.10	61.63	90.0	105.0
60.80	56.92	85.0	101.5
54.28	50.54	86.0	97.5
50.00	46.33	89.0	94.0
40.55	37.36	96.2	-
29.45	26.31	103.8	-
22.10	19.40	109.5	-
10.30	9.26	117.0	-
00.00	00.00	123.5	-

Sintering Point = 82.5°C.

Table 30

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-anisidine

(Cooling Curve)

Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in ^{o}C	T.P. in ^{o}C
100.00	118.5	137.5
89.13	112.0	128.5
77.64	104.1	119.0
61.79	88.9	104.5
51.42	85.7	97.7
41.59	92.9	91.5
31.92	100.0	91.5
00.00	123.5	-

Eutectic Point = $82.5^{o}C$.

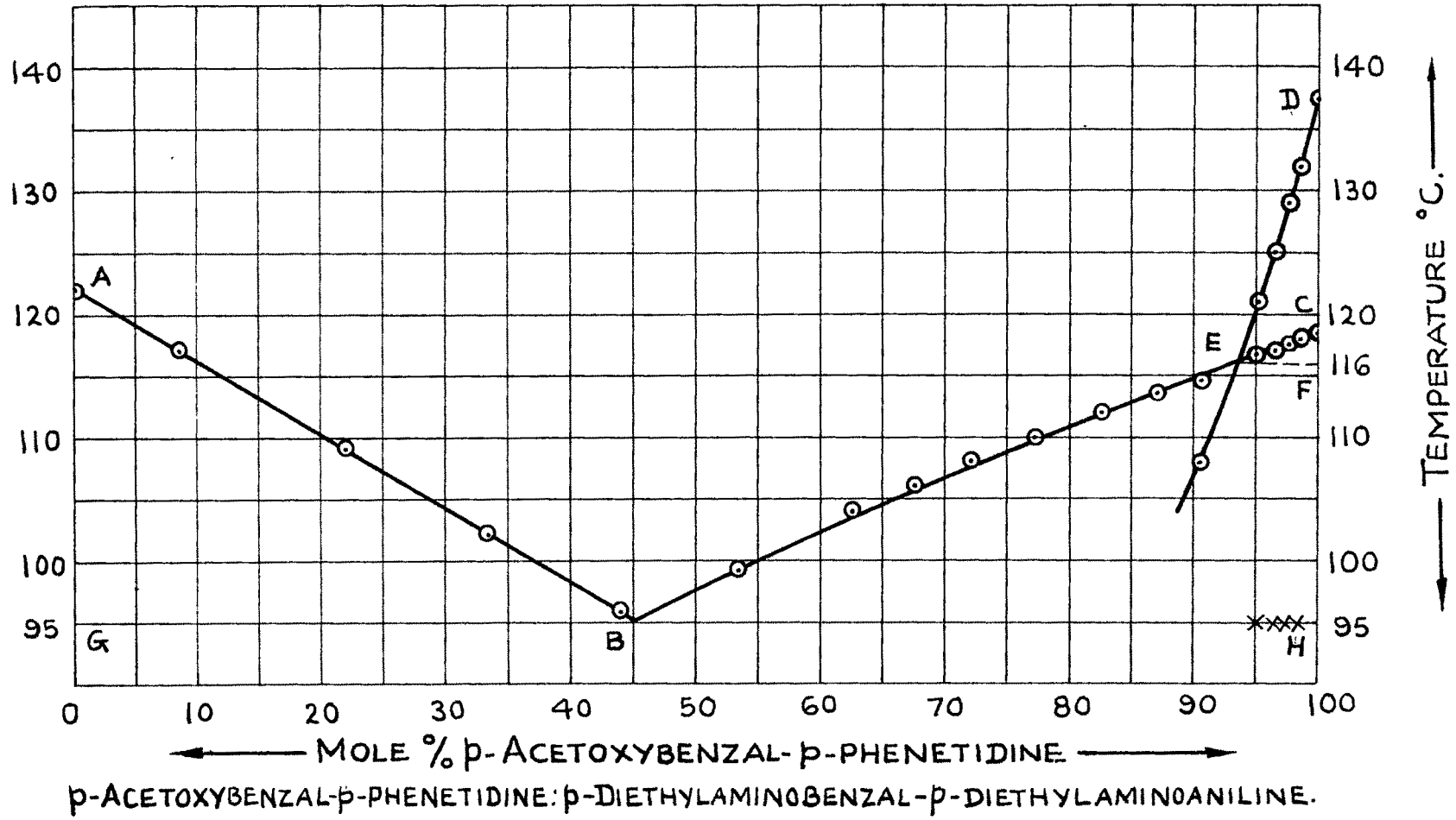

140
130
120
110
100
95
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
TEMPERATURE °C.
p-ACETOXYBENZAL-p-PHENETIDINE: p-DIETHYLAMINOBENZAL-p-DIETHYLAMINOANILINE.

FIG. 32

Table 31

p-Acetoxybenzal-p-phenetidine : p-Diethylaminobenzal-p-diethylaminoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.86	98.86	117.8	132.0
97.73	997.86	117.5	129.0
96.25	96.79	117.0	125.2
95.15	95.48	116.8	120.8
89.62	90.74	114.5	(108.0)
85.00	87.16	113.5	-
80.05	82.52	112.0	-
74.96	77.16	110.0	-
70.31	72.30	108.2	-
66.51	67.90	106.0	-
60.81	62.75	104.0	-
51.51	53.61	99.0	-
41.65	44.31	95.6	-
30.90	33.51	102.0	-
19.75	22.00	109.0	-
6.80	8.96	117.0	-
00.00	00.00	122.0	-

Sintering Point = 95.0°C.

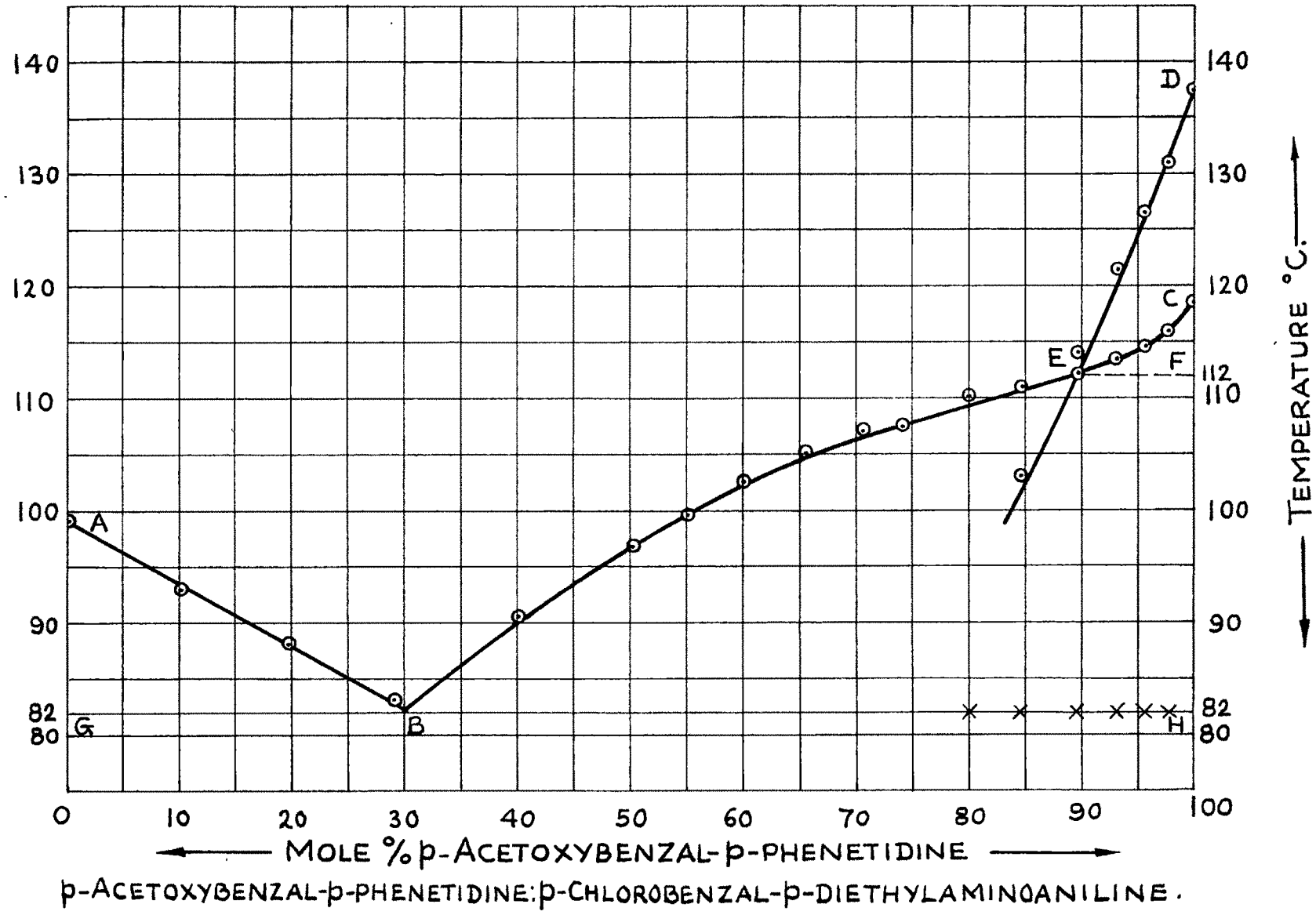

140
130
120
110
100
90
82
80
A
B
C
D
E
F
G
H
112
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
TEMPERATURE °C.
p-ACETOXYBENZAL-p-PHENETIDINE:p-CHLOROBENZAL-p-DIETHYLAMINOANILINE.

FIG. 33

Table 32

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-diethylaminoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.45	97.82	116.0	131.0
96.26	95.56	114.5	126.5
95.79	93.05	113.5	121.4
90.26	89.80	112.0	114.0
85.70	84.72	111.0	(103.0)
80.26	80.46	110.4	-
75.16	74.39	107.5	-
70.86	70.58	107.0	-
65.10	65.72	105.2	-
59.36	60.30	102.5	-
55.55	54.89	99.5	-
50.06	50.08	96.5	-
38.76	40.21	90.5	-
29.85	29.86	83.0	-
19.86	19.56	88.2	-
10.05	10.16	93.0	-
00.00	00.00	99.0	-

Sintering Point = 82.0°C.

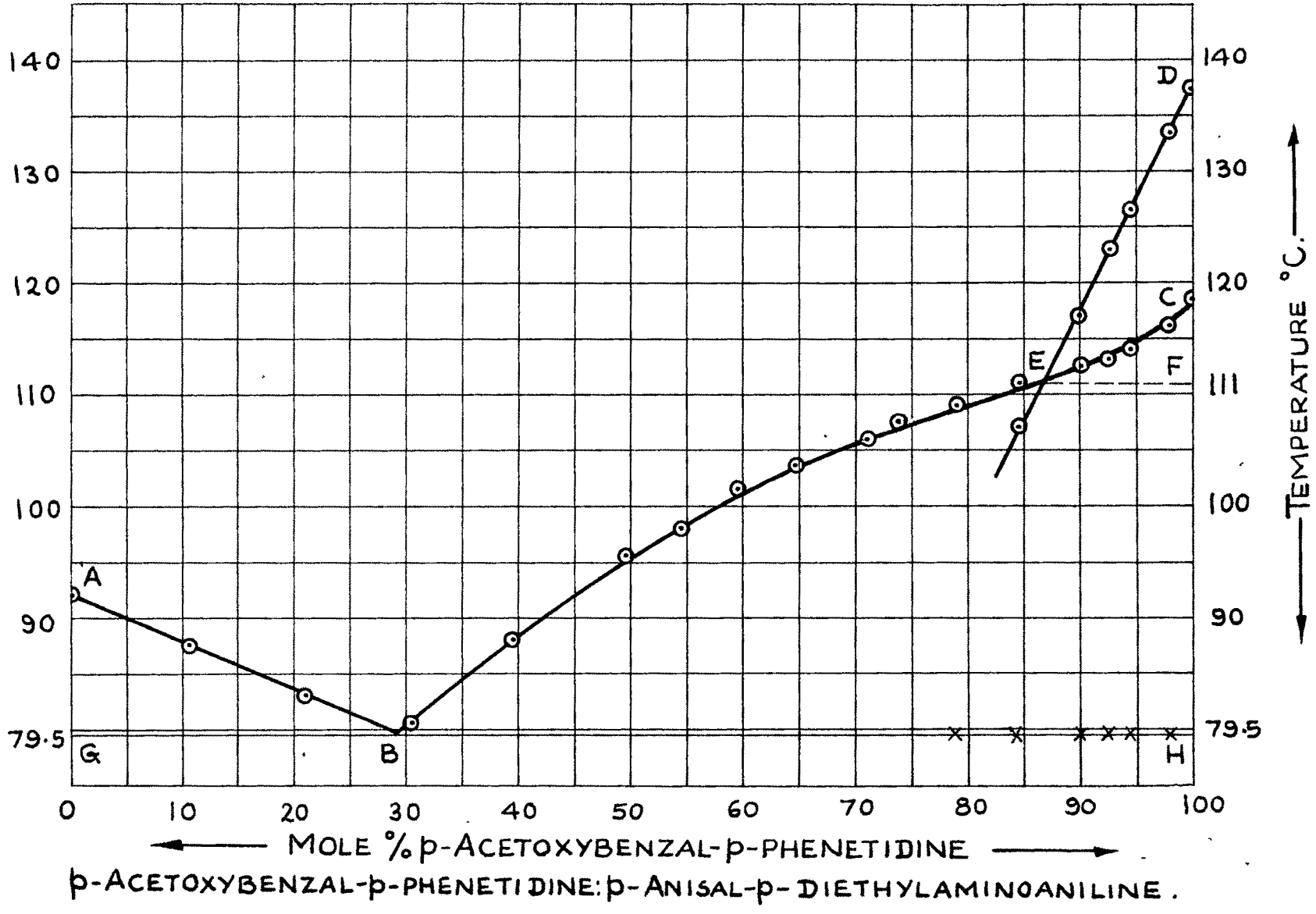

140
130
120
110
100
90
79.5
A
B
C
D
E
F
G
H
111
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: p-ANISAL-p-DIETHYLAMINOANILINE.

FIG. 34

Table 33

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-diethylaminoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.58	98.51	116.0	133.4
95.30	94.58	114.0	126.5
93.81	92.74	113.2	123.0
89.73	90.07	112.5	117.0
85.25	84.70	111.0	(107.0)
79.27	79.03	109.0	-
75.01	73.98	107.5	-
71.06	70.98	106.0	-
64.91	64.85	103.5	-
60.05	59.61	101.5	-
55.25	54.67	98.2	-
50.00	49.60	95.8	-
40.11	39.61	88.0	-
30.66	30.49	80.5	-
21.10	21.06	83.0	-
10.80	10.74	87.5	-
00.00	00.00	92.0	-

Sintering Point = 79.5°C.

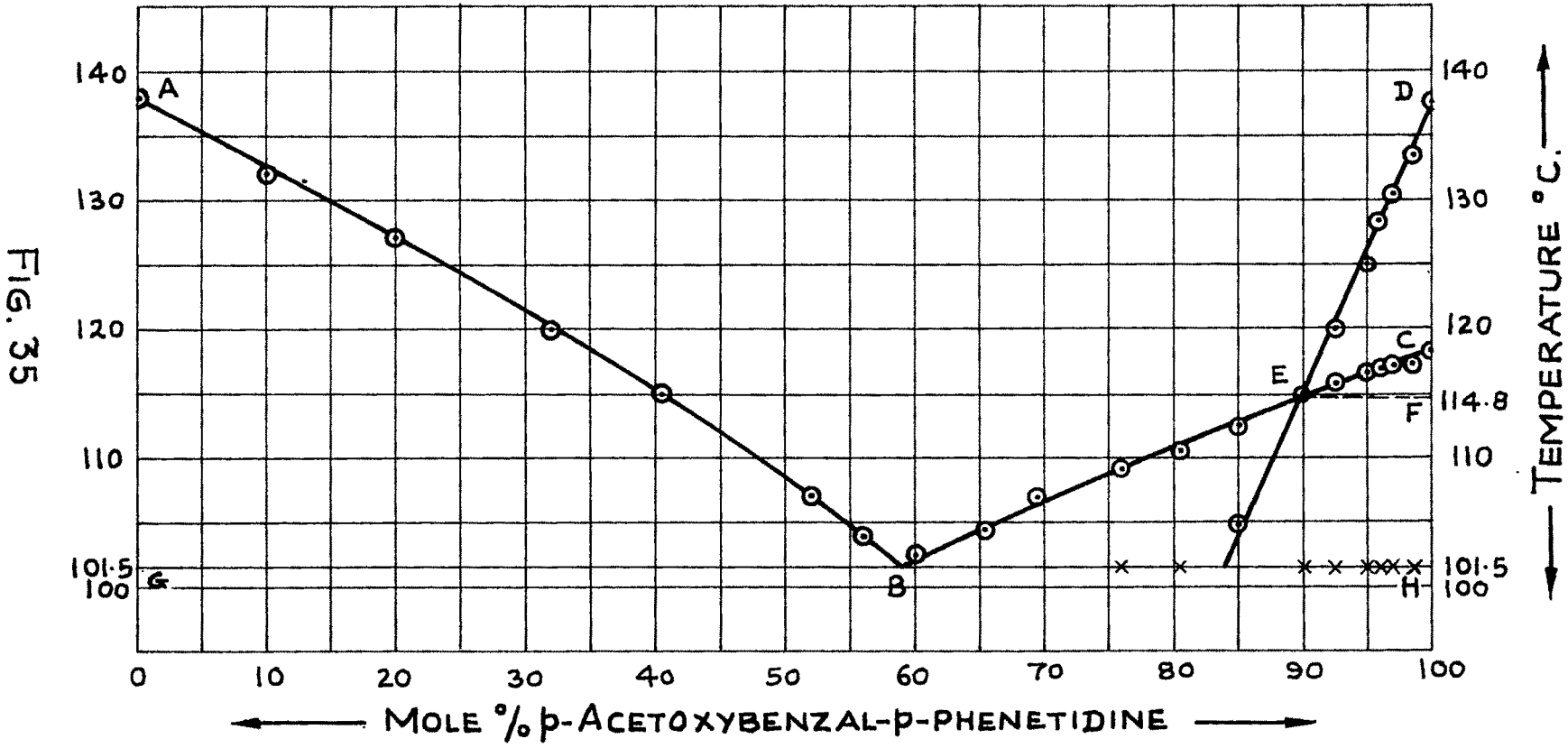


FIG. 35

p-ACETOXYBENZAL-p-PHENETIDINE : p-DIMETHYLAMINOBENZAL-p-DIETHYLAMINOANILINE.

Table 34

p-Acetoxybenzal-p-phenetidine : p-Dimethylaminobenzal-p-diethylaminoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.95	98.58	117.5	133.5
97.34	97.05	117.4	130.5
96.25	96.07	117.0	128.5
95.37	95.04	116.5	125.2
92.94	92.62	115.6	120.0
90.61	90.22	115.0	-
85.09	85.43	112.5	(104.5)
80.09	80.74	110.5	-
75.70	75.90	109.0	-
69.60	69.82	106.8	-
65.51	65.69	104.5	-
59.95	60.30	102.5	-
55.00	56.08	104.0	-
51.20	52.10	107.4	-
39.90	40.80	115.0	-
31.35	31.95	120.0	-
19.70	20.21	127.0	-
10.15	10.37	132.0	-
00.00	00.00	138.0	-

Sintering Point = 101.5°C.

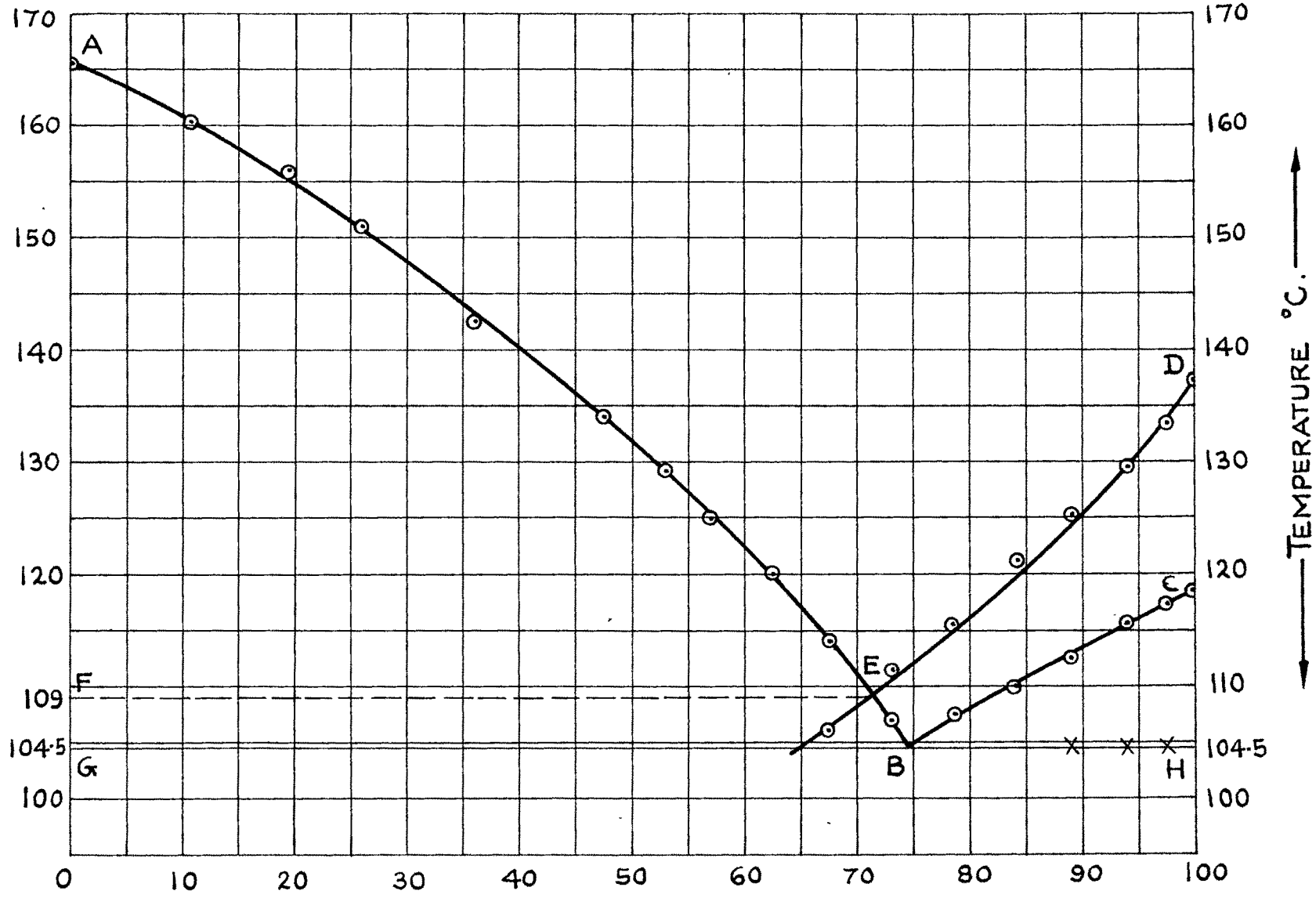


FIG. 36

p-ACETOXYBENZAL-p-PHENETIDINE: p-CHLOROBENZAL-p-DIMETHYLAMINOANILINE.

Table 35

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-dimethylaminoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.04	97.62	117.5	133.5
95.88	93.93	115.5	129.8
91.26	88.96	112.5	125.5
85.53	84.43	110.0	121.5
80.91	78.74	107.5	115.5
75.46	73.30	107.0	111.5
69.97	67.89	114.0	(106.0)
65.66	62.56	120.0	-
60.70	57.19	125.0	-
56.10	52.98	129.2	-
50.44	47.69	134.0	-
41.80	35.87	142.0	-
31.25	26.31	151.2	-
21.55	19.49	156.0	-
12.35	10.94	160.4	-
00.00	00.00	165.5	-

Sintering Point = 104.5°C.

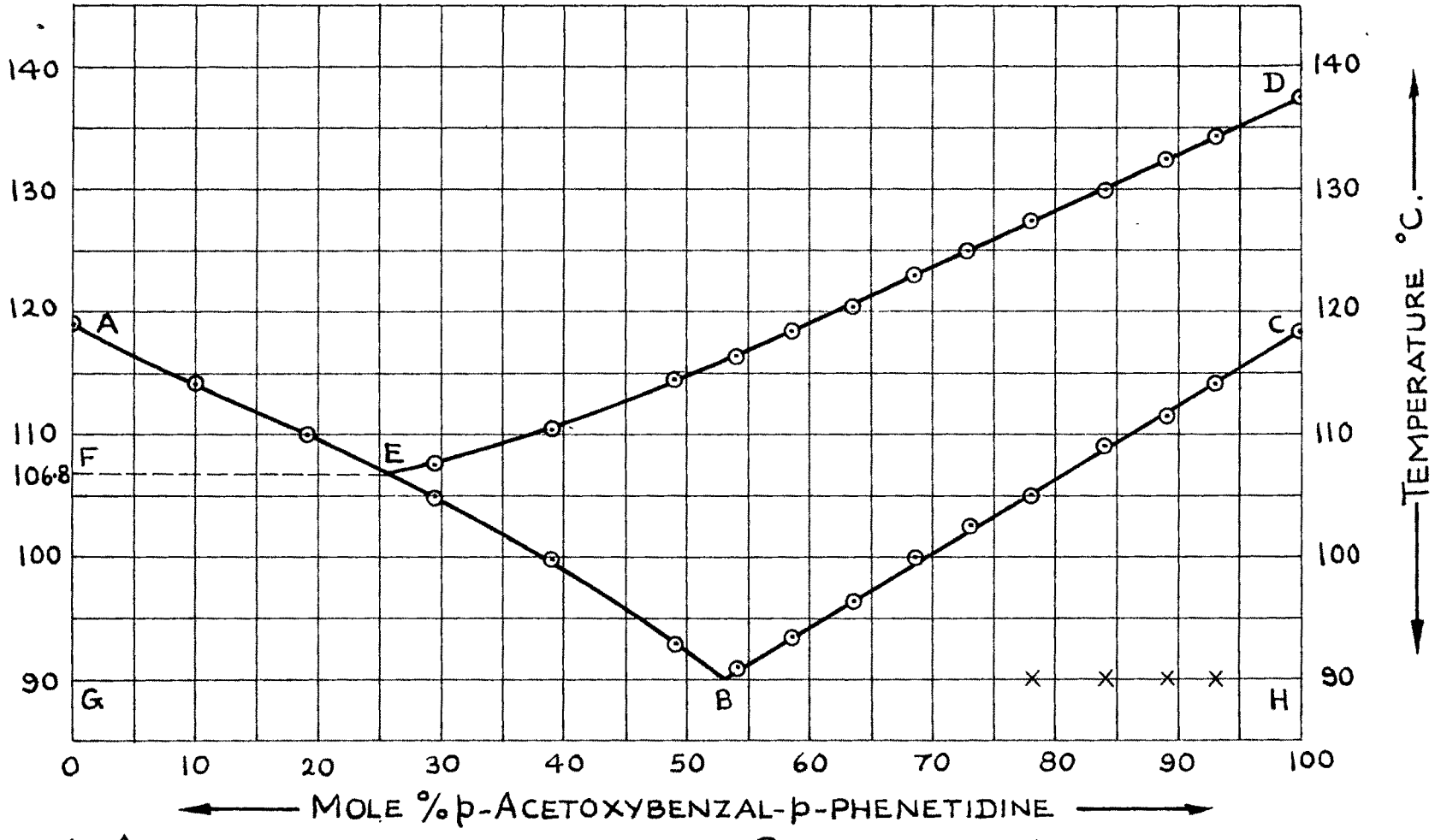

140
130
120
110
106·8
100
90
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: p-n-PROPOXYBENZAL-p-ANISIDINE.

FIG. 37

Table 36

p-Acetoxybenzal-p-phenetidine : p-n-Propoxybenzal-p-anisidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
96.29	93.24	114.0	134.2
89.76	88.98	111.6	132.5
85.06	84.45	109.0	130.0
80.15	78.43	105.0	127.4
75.41	73.05	102.5	125.0
70.35	68.71	100.0	123.0
65.30	63.46	96.5	120.5
60.60	58.89	93.5	118.5
56.06	54.21	91.0	116.4
50.06	48.96	93.0	114.5
40.30	39.28	100.0	110.5
30.90	29.59	105.0	107.5
20.41	19.35	110.0	-
10.80	10.23	114.2	-
00.00	00.00	119.0	-

Sintering Point = 90.0°C.

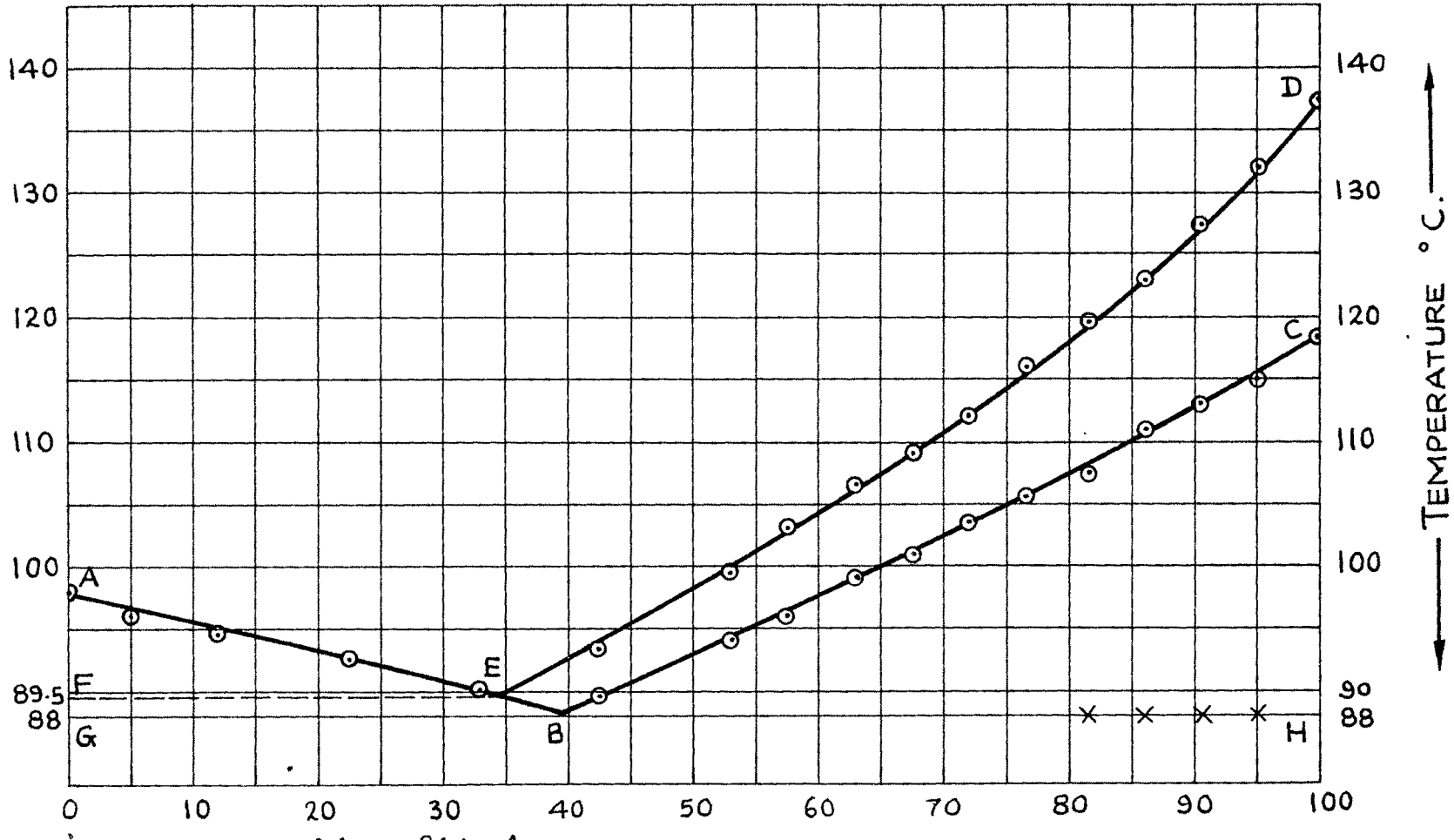

140
130
120
110
100
89.5
88
90
88
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: p-n-PROPOXYBENZAL-p-BROMOANILINE.

FIG. 38

Table 37

p-Acetoxybenzal-p-phenetidine : p-n-Propoxybenzal-p-bromoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in ^{o}C	T.P. in ^{o}C
100.00	100.00	118.5	137.5
95.37	95.01	115.0	132.0
90.44	90.69	113.0	127.5
85.90	86.20	111.0	123.0
81.05	81.74	107.5	119.5
76.05	76.93	105.5	116.0
70.65	72.28	103.5	112.0
65.15	67.51	101.0	109.0
60.45	63.46	99.2	106.5
54.61	57.92	96.2	103.0
50.10	52.61	94.0	98.8
39.86	42.53	89.5	93.0
31.11	33.01	90.0	-
20.90	22.76	92.5	-
8.89	12.25	94.5	-
4.26	5.08	96.0	-
00.00	00.00	98.0	-

Sintering Point = 88.0^{o}C.

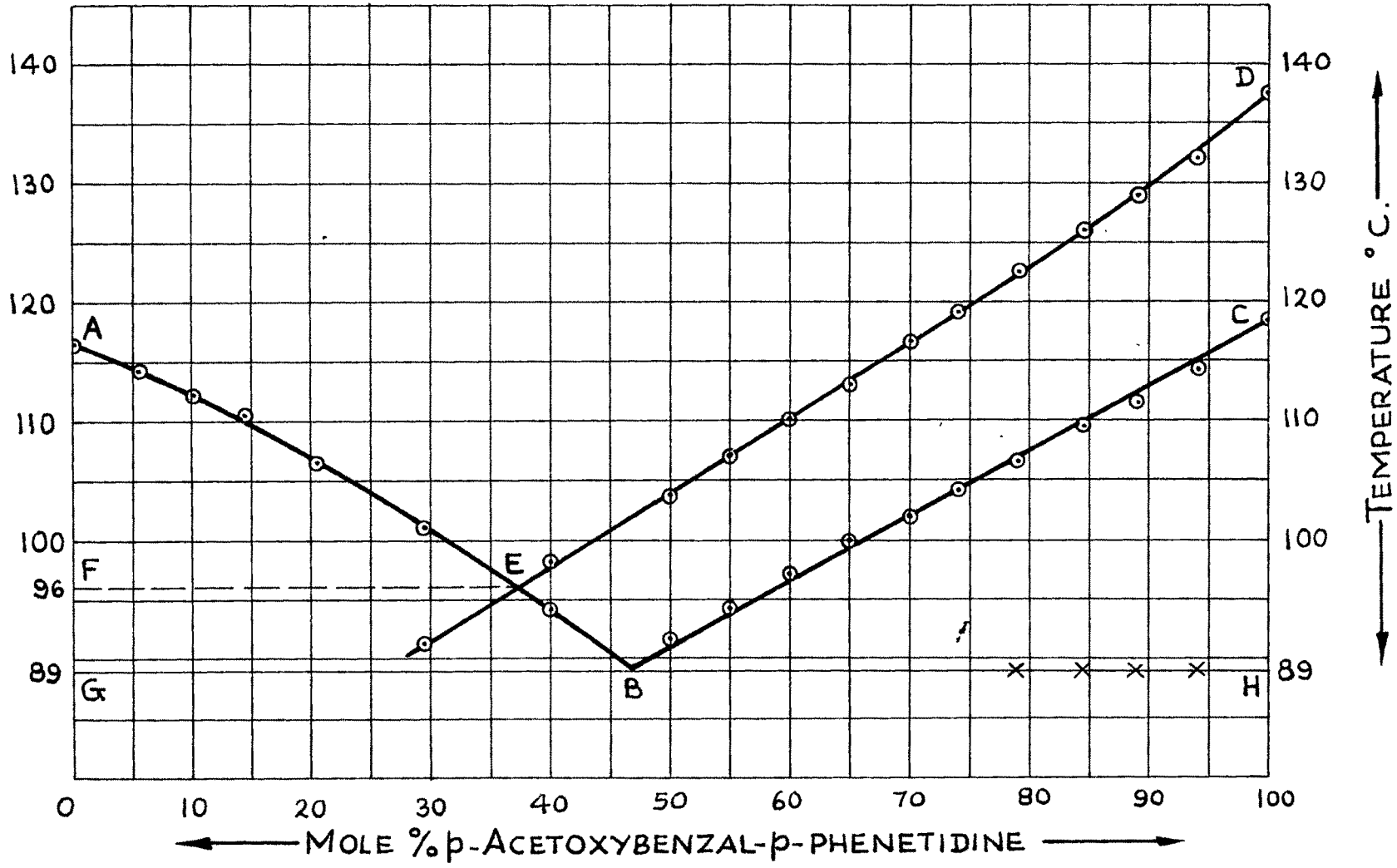

140
130
120
110
100
96
89
A
F
G
E
B
D
C
H
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
TEMPERATURE °C.
p-ACETOXYBENZAL-p-PHENETIDINE: p-n-PROPOXYBENZAL-p-DIMETHYLAMINOANILINE.

FIG. 39

Table 38

p-Acetoxybenzal-p-phenetidine : p-n-Propoxybenzal-p-dimethylaminoaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
95.26	94.26	114.0	132.0
89.86	89.29	111.5	129.0
85.33	84.70	109.4	126.0
79.91	79.02	106.5	122.5
75.75	74.29	104.0	119.0
70.63	69.93	102.0	116.5
66.16	65.28	100.0	113.0
60.20	60.39	97.2	110.0
55.89	54.92	94.0	107.0
50.55	50.14	91.4	103.5
40.15	40.05	94.0	98.0
30.10	29.86	101.0	(91.0)
20.90	20.73	106.4	-
15.26	14.91	110.5	-
9.95	9.91	112.4	-
6.01	5.67	114.0	-
00.00	00.00	116.5	-

Sintering Point = 89.0°C.

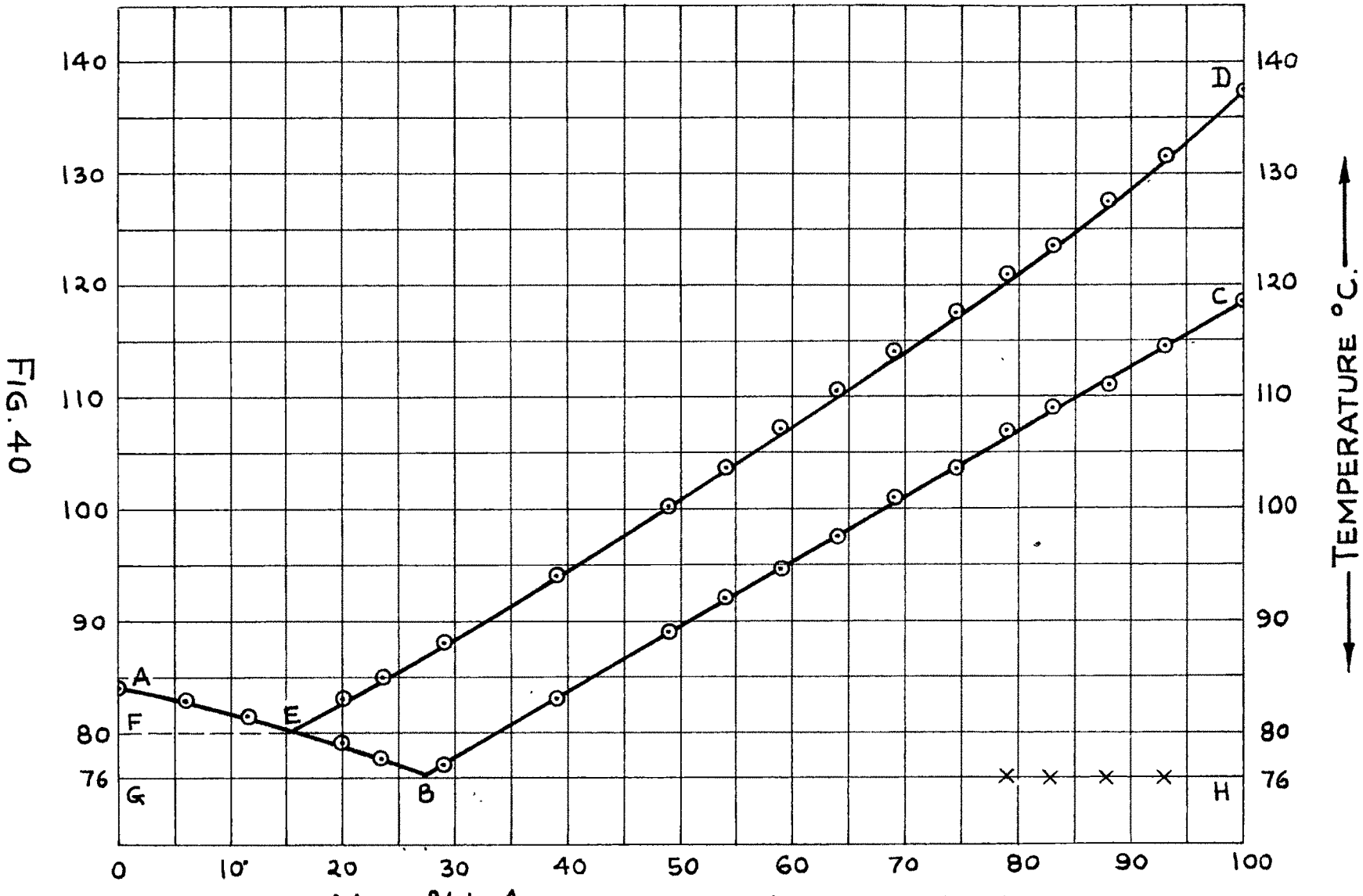

140
130
120
110
100
90
80
76
A
F
G
E
B
D
C
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-n-PROPOXYBENZAL-p-CHLOROANILINE.

FIG. 40

Table 39

p-Acetoxybenzal-p-phenetidine : p-n-Propoxybenzal-p-chloroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
95.79	93.46	114.5	131.5
91.05	88.47	111.0	127.5
85.39	83.33	109.0	123.8
81.08	79.36	107.0	121.0
75.65	74.80	103.5	117.5
70.09	69.31	101.0	114.0
66.01	64.45	97.5	110.5
61.70	59.11	94.5	107.2
54.96	54.34	92.0	103.5
51.00	49.15	89.0	100.0
40.70	39.31	83.0	94.0
30.06	29.17	77.0	88.0
24.68	23.52	77.5	85.0
20.84	20.14	78.8	83.0
12.75	11.98	81.5	-
7.64	6.02	83.0	-
00.00	00.00	84.0	-

Sintering Point = 76.0°C.

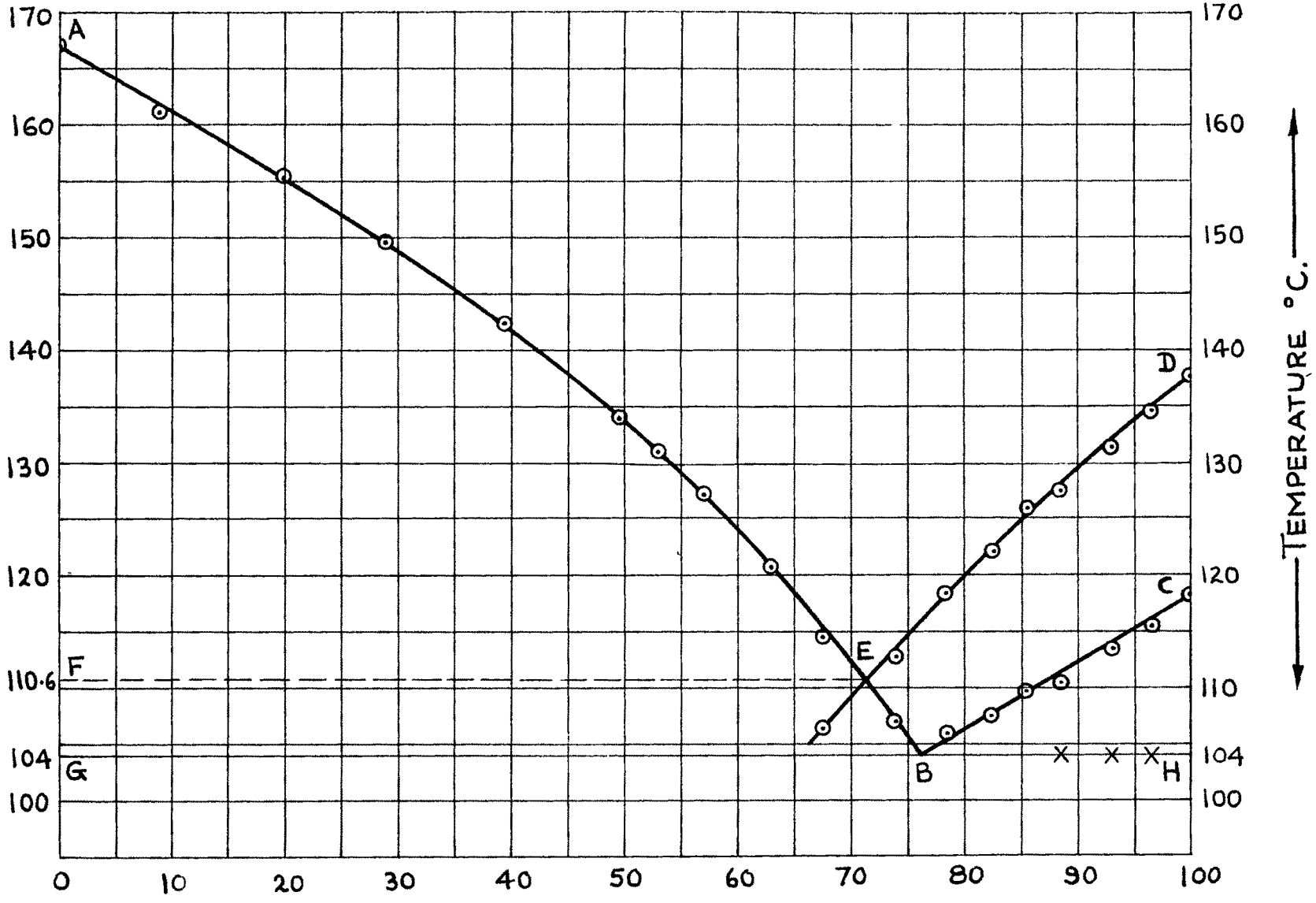

170
160
150
140
130
120
110·6
104
100
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: p- CHLOROBENZAL-p- NITROANILINE.

FIG. 41

Table 40

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-nitroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.46	96.52	115.5	134.5
95.66	93.28	113.5	131.5
89.45	88.86	110.5	127.5
87.28	85.54	109.4	126.0
86.24	82.92	107.5	122.0
79.27	78.98	106.0	118.5
76.43	74.04	107.0	112.5
69.21	67.81	114.5	(106.0)
65.55	62.99	120.5	-
60.20	57.24	127.0	-
54.66	53.31	131.0	-
51.54	49.61	134.0	-
42.45	39.59	142.5	-
31.06	29.29	149.8	-
22.01	20.22	155.6	-
9.35	9.21	161.0	-
00.00	00.00	167.0	-

Sintering Point = 104.0°C.

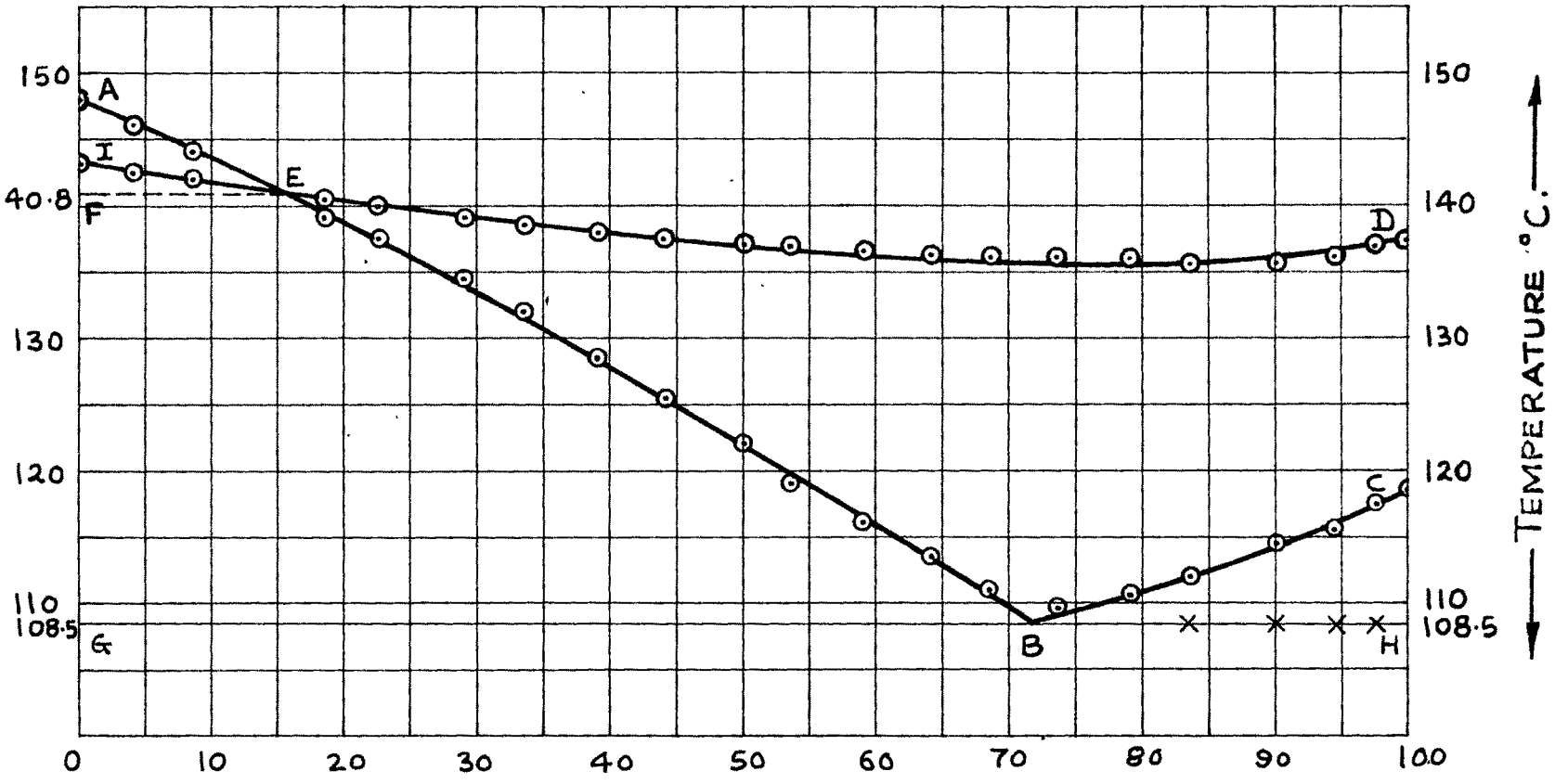


FIG. 42

p-ACETOXYBENZAL-p-PHENETIDINE : p-ETHOXYBENZAL-p-PHENETIDINE.

Table 41

p-Acetoxybenzal-p-phenetidine : p-Ethoxybenzal-p-phenetidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.62	97.56	117.5	136.8
95.74	94.79	115.5	136.0
90.44	90.18	114.5	135.5
85.39	83.85	112.0	135.8
80.56	79.41	110.5	136.0
74.84	73.57	109.5	136.0
70.60	68.79	111.0	136.2
65.55	64.15	113.5	136.4
61.41	59.33	116.0	136.5
55.20	53.83	119.0	137.0
50.55	50.04	122.0	137.2
45.30	44.00	125.5	137.5
40.55	39.20	128.5	138.0
34.95	33.64	132.0	138.6
30.26	29.41	134.5	139.0
23.48	22.51	137.5	140.0
19.25	18.60	139.0	140.5
11.35	8.49	144.0	(142.0)
6.46	4.28	146.0	(142.5)
00.00	00.00	148.0	(143.0)

Sintering Point = 108.5°C.

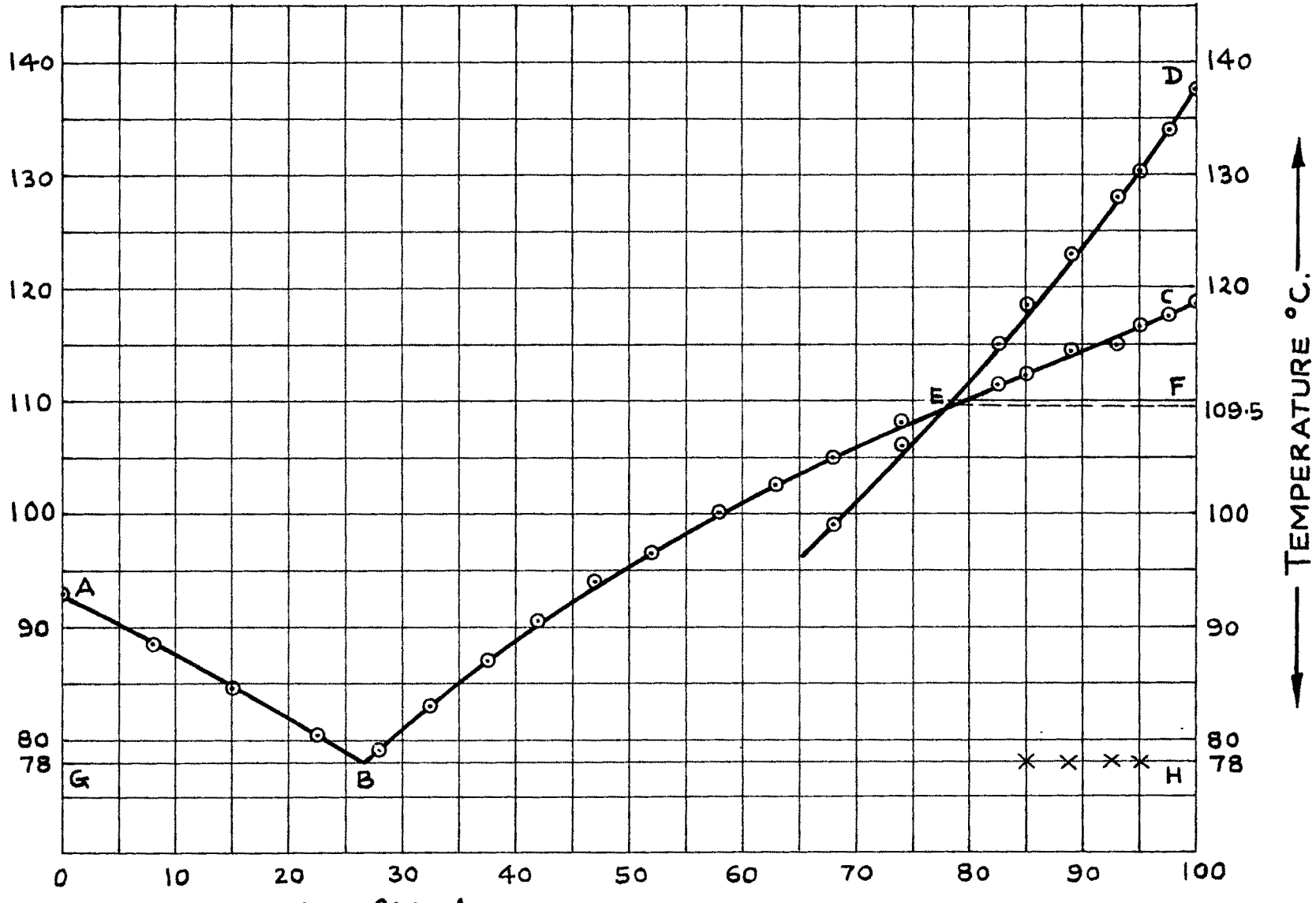

140
130
120
110
100
90
80
78
0
10
20
30
40
50
60
70
80
90
100
A
B
C
D
E
F
G
H
109·5
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-TOLUAL-p-TOLUIDINE.

FIG. 43

Table 42

p-Acetoxybenzal-p-phenetidine : p-Tolual-p-toluidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.46	97.52	117.5	134.0
97.42	95.22	116.5	130.5
95.70	93.03	115.0	128.0
93.46	89.28	114.5	123.0
89.45	85.27	112.0	118.5
90.92	82.58	111.5	115.2
80.95	74.42	108.2	(106.0)
74.76	68.16	105.0	(99.0)
70.36	63.46	102.5	-
65.10	58.09	100.0	-
59.91	52.31	96.5	-
55.00	47.33	94.0	-
49.65	42.25	90.5	-
45.21	37.61	87.0	-
39.80	32.78	83.2	-
34.80	28.24	79.0	-
29.50	22.58	80.5	-
19.95	15.49	84.5	-
10.65	8.05	88.5	-
00.00	00.00	93.0	-

Sintering Point = 78.0°C.

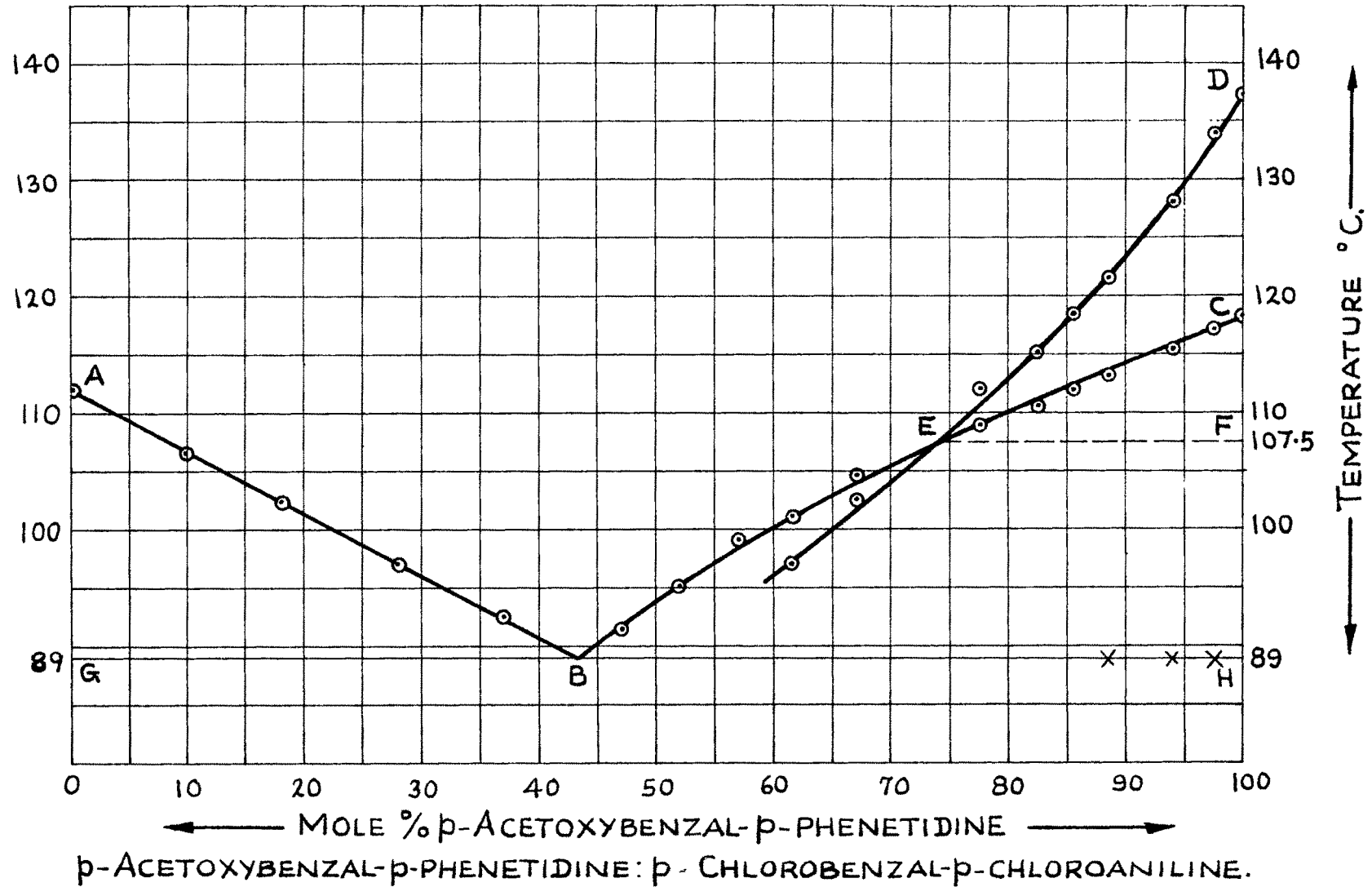

140
130
120
110
100
89
A
B
C
D
E
F
G
H
107·5
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
TEMPERATURE °C.
p-ACETOXYBENZAL-p-PHENETIDINE : p - CHLOROBENZAL-p-CHLOROANILINE.

FIG. 44

Table 43

p-Acetoxybenzal-p-phenetidine : p-Chlorobenzal-p-chloroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.82	97.46	117.0	134.0
95.79	94.28	115.5	128.0
90.69	88.67	113.0	126.5
87.62	85.58	112.0	118.5
84.98	82.49	110.5	115.0
80.74	77.52	109.0	112.0
69.87	67.04	104.6	(102.5)
65.39	61.51	101.0	(97.0)
61.15	57.38	99.0	-
56.14	52.07	95.0	-
50.00	46.92	91.5	-
41.05	37.22	92.5	-
30.70	27.96	97.0	-
20.10	18.01	102.5	-
11.30	9.94	106.5	-
00.00	00.00	112.0	-

Sintering Point = 89.0°C.

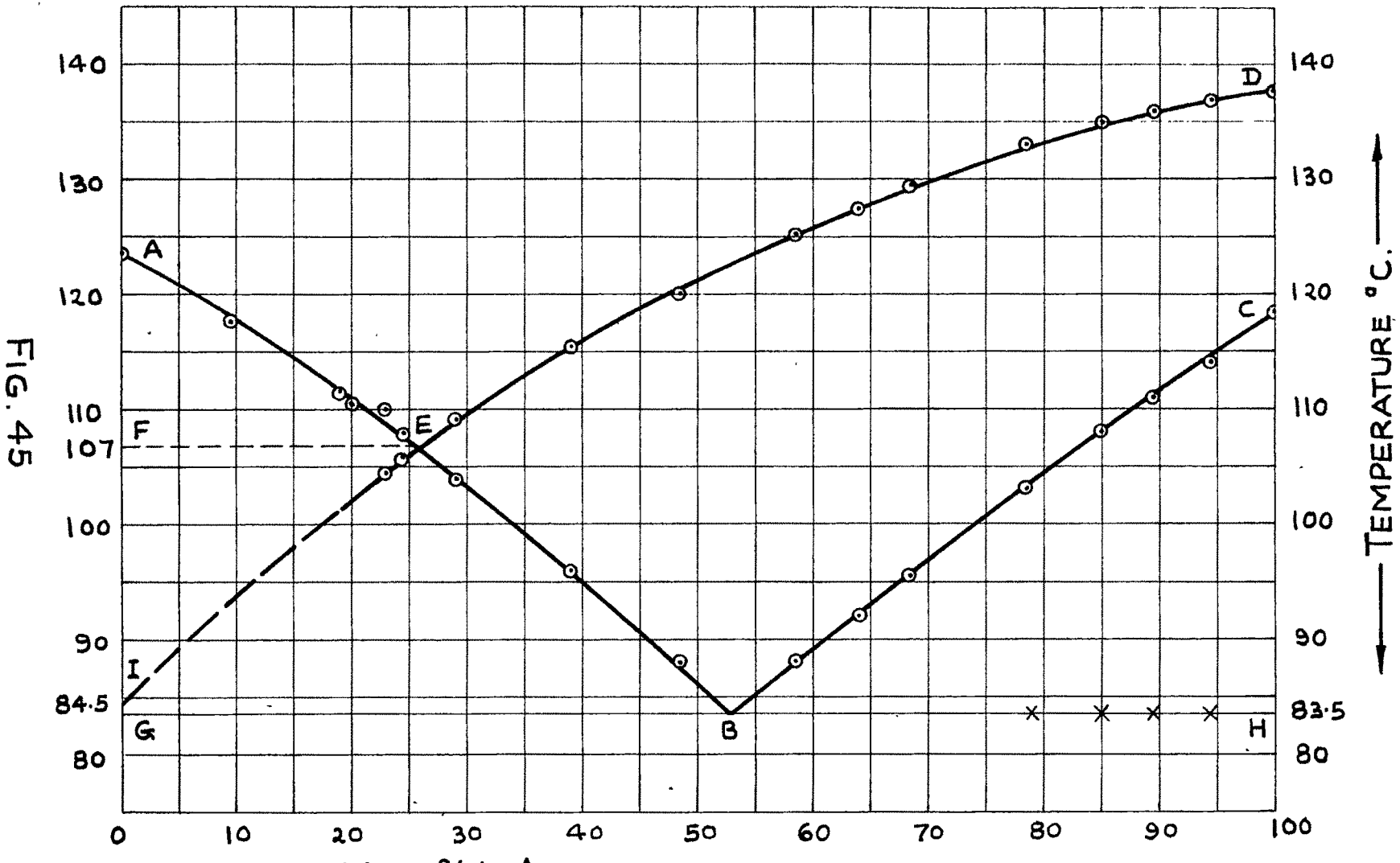

140
130
120
110
107
100
90
84.5
80
A
B
C
D
E
F
G
H
I
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-NITROBENZAL-p-PHENETIDINE.

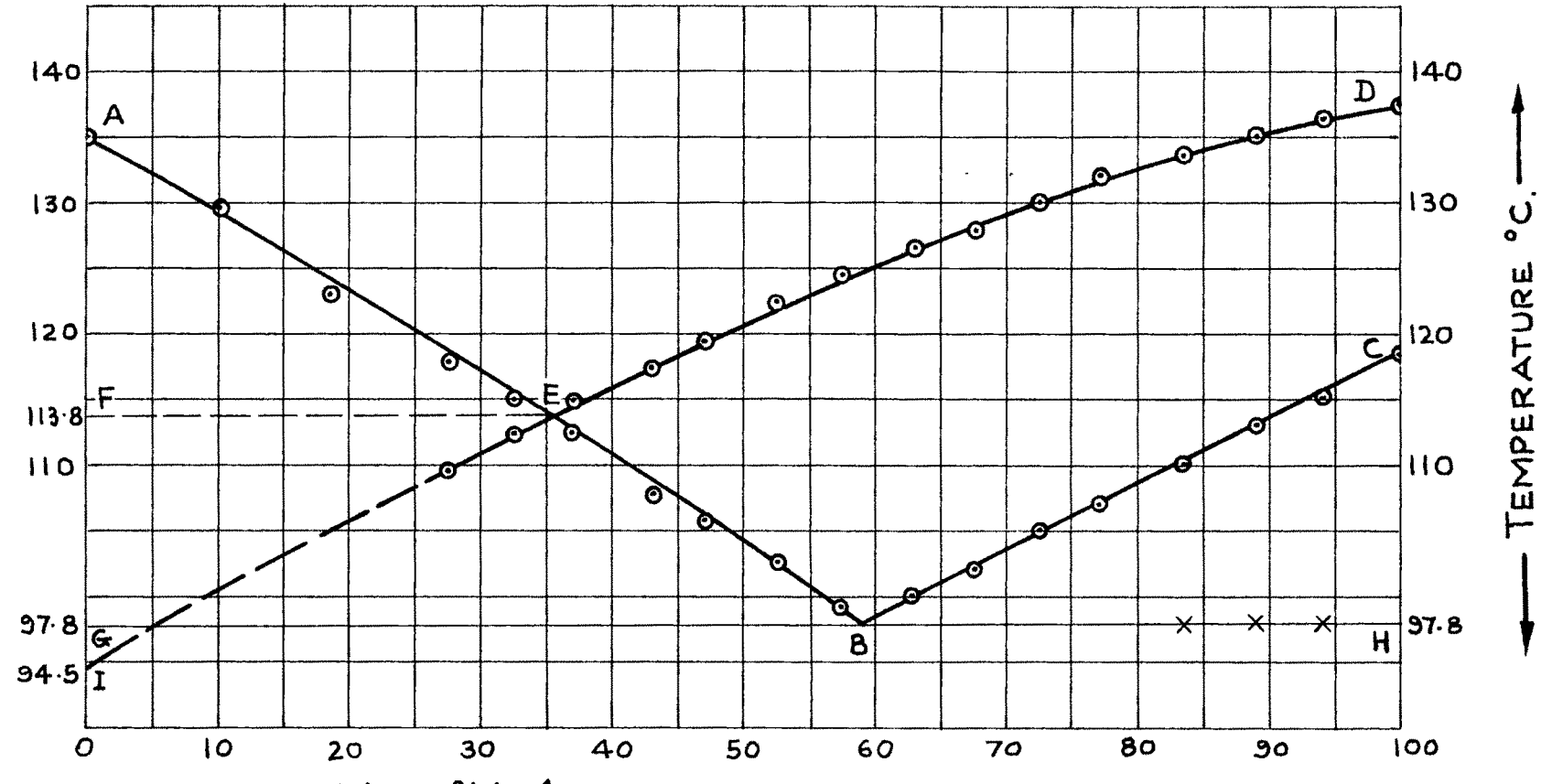
FIG. 45

Table 44

p-Acetoxybenzal-p-phenetidine : p-Nitrobenzal-p-phenetidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
94.75	94.66	114.2	136.8
90.59	89.52	111.0	136.0
84.84	85.15	108.0	135.0
79.81	78.57	103.0	133.0
69.97	68.90	95.5	129.6
65.27	64.45	92.0	127.5
59.30	58.66	88.0	125.2
49.07	48.50	88.2	120.0
40.33	39.19	96.0	115.6
30.14	29.18	104.0	109.0
25.24	24.95	108.2	(105.5)
23.90	22.90	110.0	(104.5)
22.50	20.18	110.6	-
20.17	19.46	111.6	-
10.14	9.72	117.5	-
00.00	00.00	123.5	-

Sintering Point = 83.5°C.


140
130
120
113·8
110
97·8
94·5
A
B
C
D
E
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G
H
I
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
TEMPERATURE °C.
p-ACETOXYBENZAL-p-PHENETIDINE : p-NITROBENZAL-p-ANISIDINE.

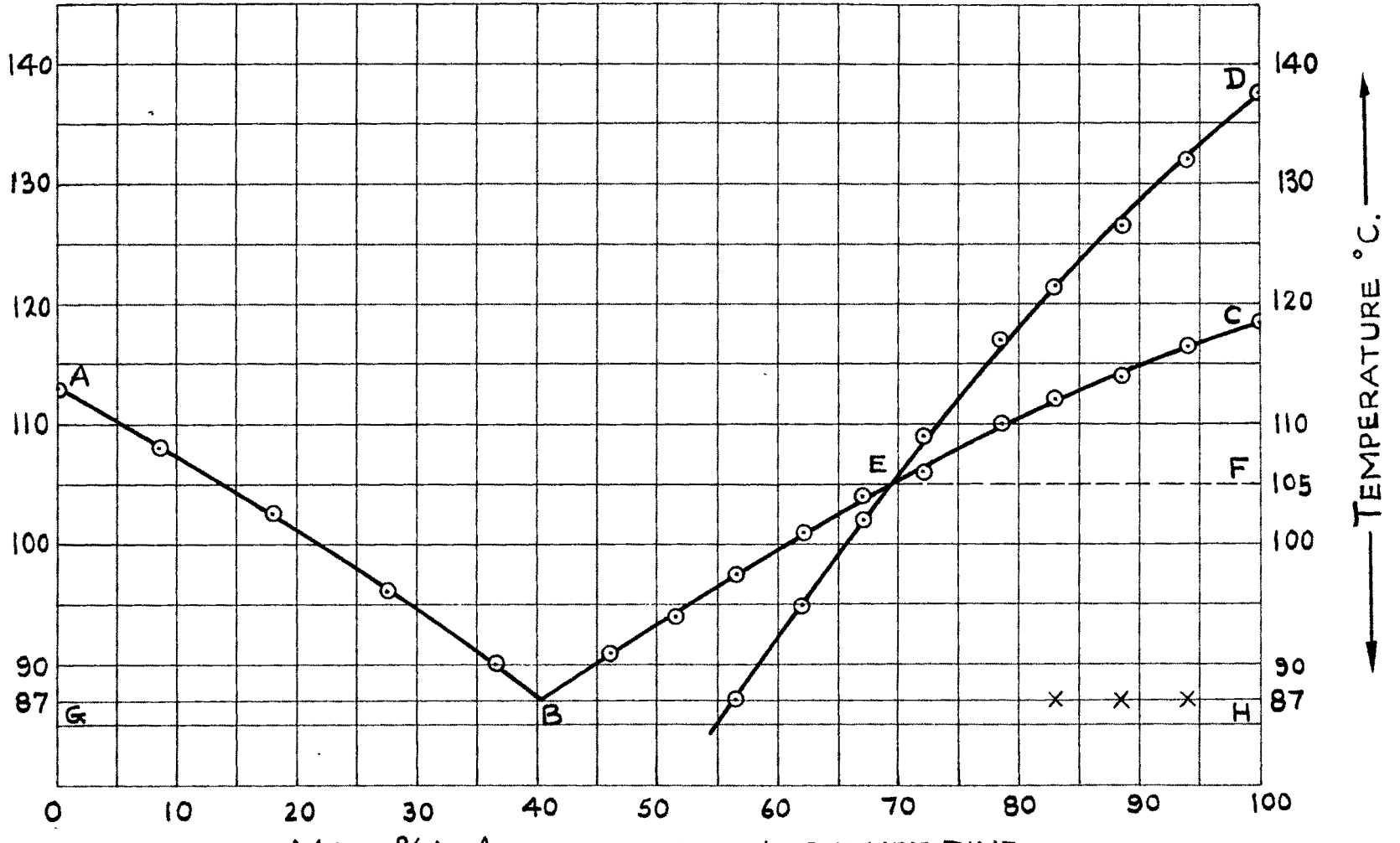
FIG. 46

Table 45

p-Acetoxybenzal-p-phenetidine : p-Nitrobenzal-p-anisidine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
96.05	94.48	115.0	136.5
90.26	89.32	113.0	135.0
84.98	83.62	110.0	133.4
79.38	77.47	107.2	132.0
74.42	72.64	105.0	130.0
70.94	67.70	102.2	128.0
65.70	62.91	100.0	126.5
61.75	57.62	99.0	124.6
55.11	52.36	102.4	122.5
50.39	47.43	106.0	119.5
45.60	42.97	108.2	117.5
39.95	37.45	112.2	115.0
35.40	32.72	114.8	(112.4)
29.41	27.36	118.0	(109.5)
20.10	18.59	123.0	-
11.55	10.45	129.5	-
00.00	00.00	135.0	-

Sintering Point = 97.8°C.


140
130
120
110
100
90
87
A
B
C
D
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0
10
20
30
40
50
60
70
80
90
100
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
TEMPERATURE °C.
p-ACETOXYBENZAL-p-PHENETIDINE: p-NITROBENZAL-p-FLUOROANILINE.

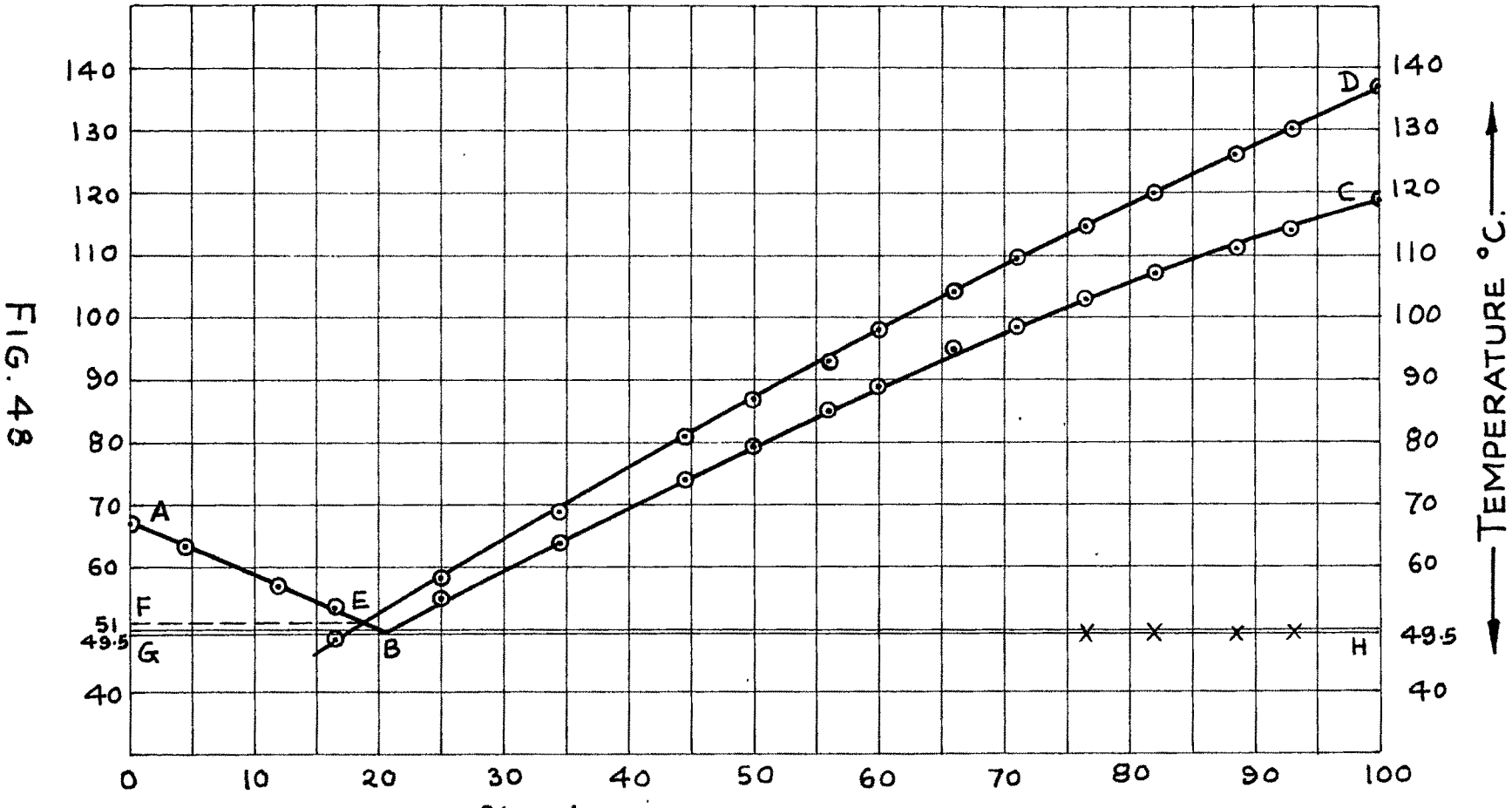
FIG. 47

Table 46

p-Acetoxybenzal-p-phenetidine : p-Nitrobenzal-p-fluoroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
93.40	94.41	116.5	132.0
90.26	88.47	114.0	126.5
85.00	83.43	112.0	121.4
80.15	78.52	110.0	116.8
74.71	72.01	106.2	109.0
70.84	67.07	104.0	(102.0)
66.10	62.44	101.0	(95.0)
59.61	56.46	97.5	(87.0)
55.30	51.71	94.0	-
49.61	46.23	91.0	-
39.80	36.68	90.0	-
30.55	27.49	96.2	-
20.50	18.20	102.6	-
9.65	8.51	108.0	-
00.00	00.00	113.0	-

Sintering Point = 87.0°C.


140
130
120
110
100
90
80
70
60
51
49.5
40
A
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C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-ANISAL-p-FLUOROANILINE.

FIG. 48

Table 47

p-Acetoxybenzal-p-phenetidine : p-Anisal-p-fluoroaniline

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
94.66	93.17	113.8	130.6
90.01	88.69	111.0	126.0
84.76	82.21	107.0	120.2
79.71	76.72	103.0	114.5
74.61	71.34	98.5	109.5
69.66	66.15	95.0	104.0
63.51	60.22	89.0	98.2
59.32	56.06	85.0	93.0
54.87	50.12	79.5	87.0
50.14	44.79	74.0	81.0
39.46	34.63	64.0	69.0
29.60	25.43	55.0	58.0
19.86	16.71	53.5	(48.5)
14.70	12.27	57.0	-
5.50	4.47	63.5	-
00.00	00.00	67.0	-

Sintering Point = 49.5°C.

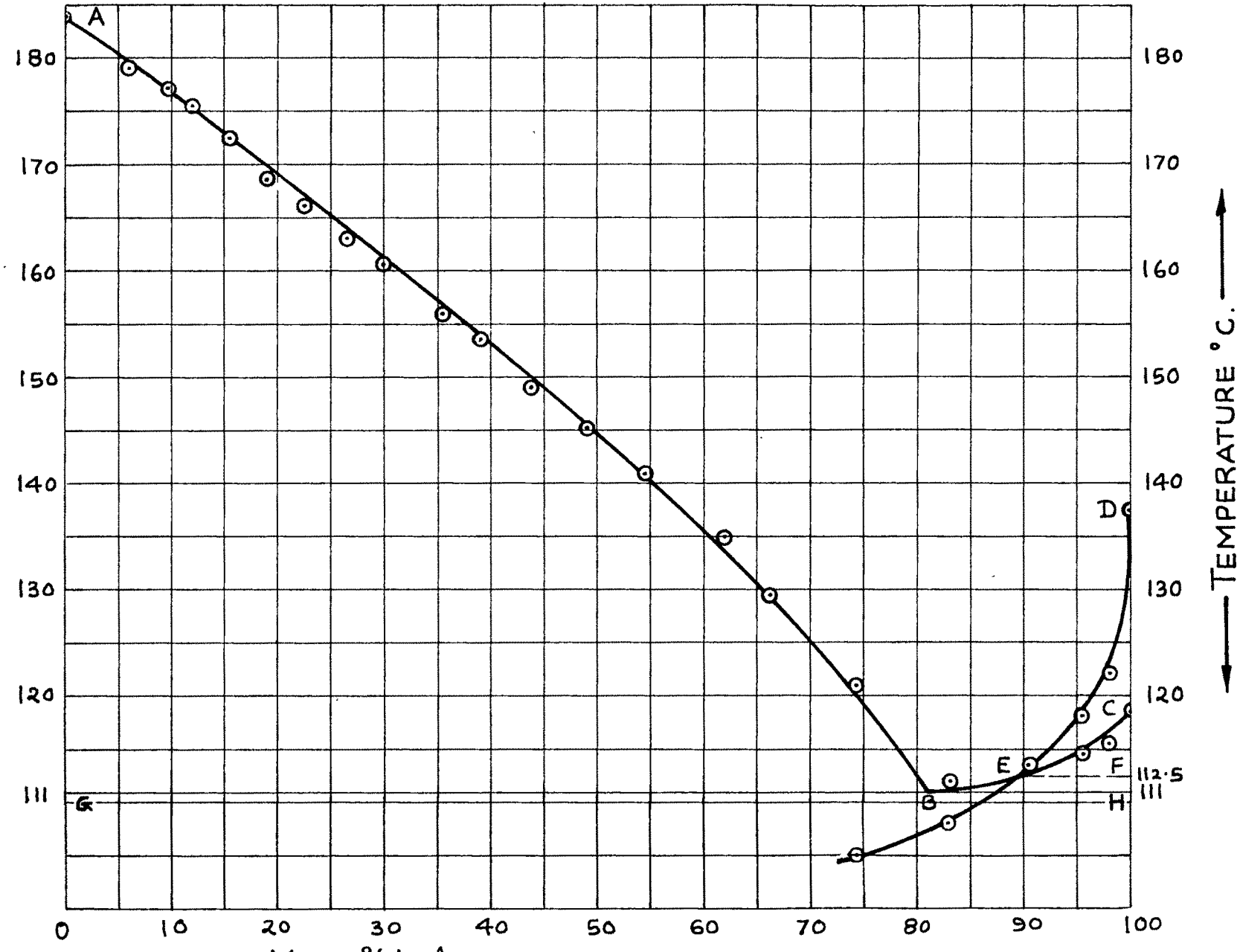

A
B
C
D
E
F
G
H
180
170
160
150
140
130
120
111
112·5
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-METHOXYBENZOIC ACID.

FIG. 49

Table 48

p-Acetoxybenzal-p-phenetidine : p-Methoxybenzoic acid

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.51	98.17	115.5	122.0
97.29	95.56	114.5	118.2
95.63	90.65	113.5	-
92.00	82.92	112.0	(108.0)
86.06	74.46	121.0	(105.0)
80.71	66.43	129.5	-
77.25	61.90	135.0	-
70.31	54.79	141.0	-
65.30	49.32	145.2	-
60.70	43.85	149.0	-
55.69	39.17	153.0	-
50.80	35.65	155.5	-
45.21	29.95	160.6	-
41.71	26.57	163.0	-
36.51	22.72	166.0	-
31.46	19.16	168.5	-
26.65	15.77	172.5	-
21.20	12.27	175.2	-
17.65	9.87	176.8	-
11.60	6.42	179.0	-
00.00	00.00	184.0	-

Sintering Point = 111.0°C.

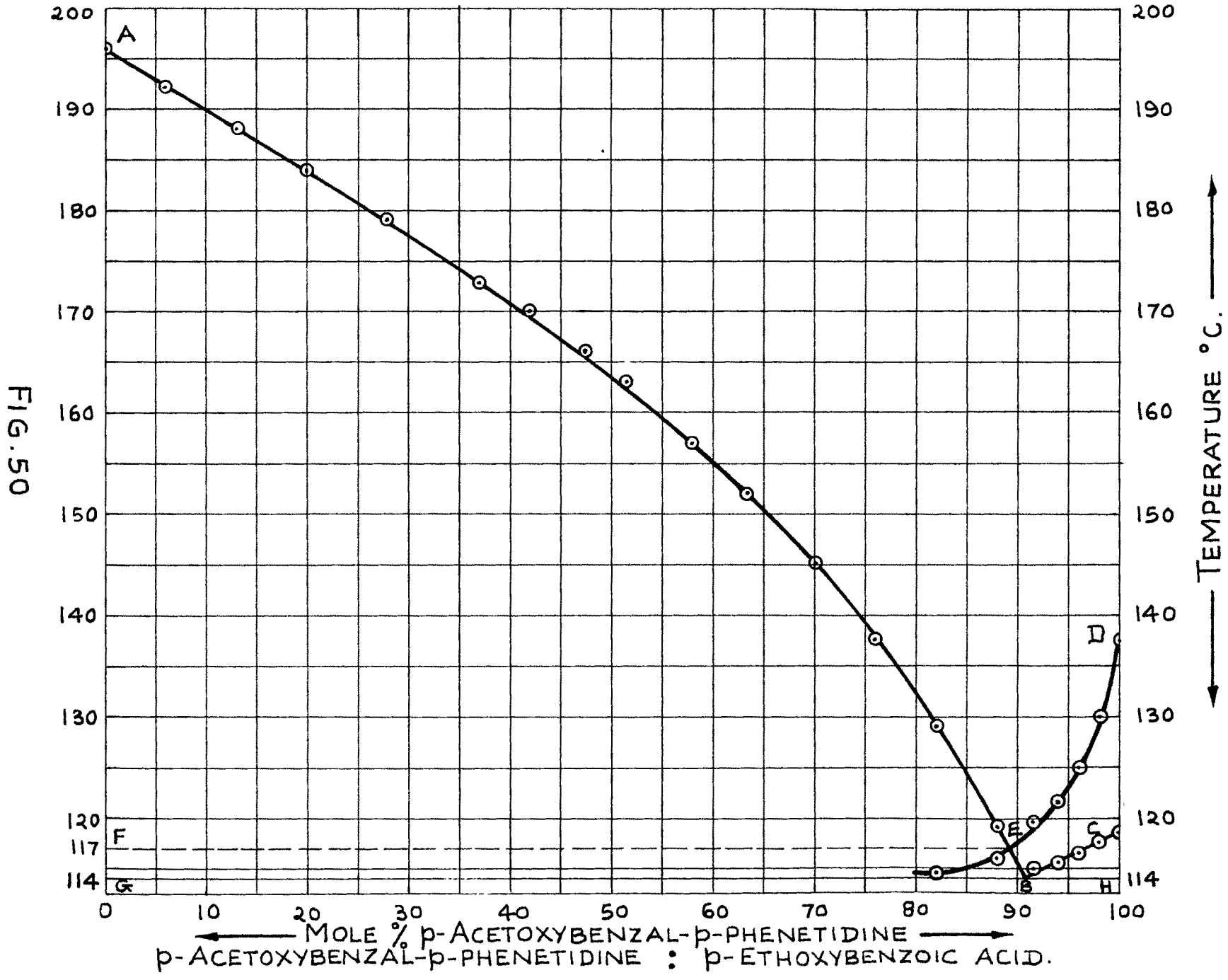

200
190
180
170
160
150
140
130
120
117
114
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : p-ETHOXYBENZOIC ACID.

FIG. 50

Table 49

p-Acetoxybenzal-p-phenetidine : p-Ethoxybenzoic acid

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in ^{o}C	T.P. in ^{o}C
100.00	100.00	118.5	137.5
99.82	98.24	117.5	130.0
97.25	96.32	116.5	125.0
96.02	94.24	115.5	121.5
95.06	91.62	115.0	119.5
92.51	88.22	119.0	(116.0)
89.86	81.96	129.0	(114.5)
86.50	75.97	137.5	-
80.39	70.09	145.0	-
75.30	63.83	152.4	-
70.04	58.25	157.0	-
65.51	51.81	163.0	-
60.74	47.55	166.0	-
55.84	42.06	170.2	-
50.00	37.18	173.0	-
39.95	28.38	179.0	-
29.95	19.97	184.2	-
20.25	13.14	188.0	-
10.40	6.31	192.0	-
00.00	00.00	196.0	-

Sintering Point = 114.0 ^{o}C.

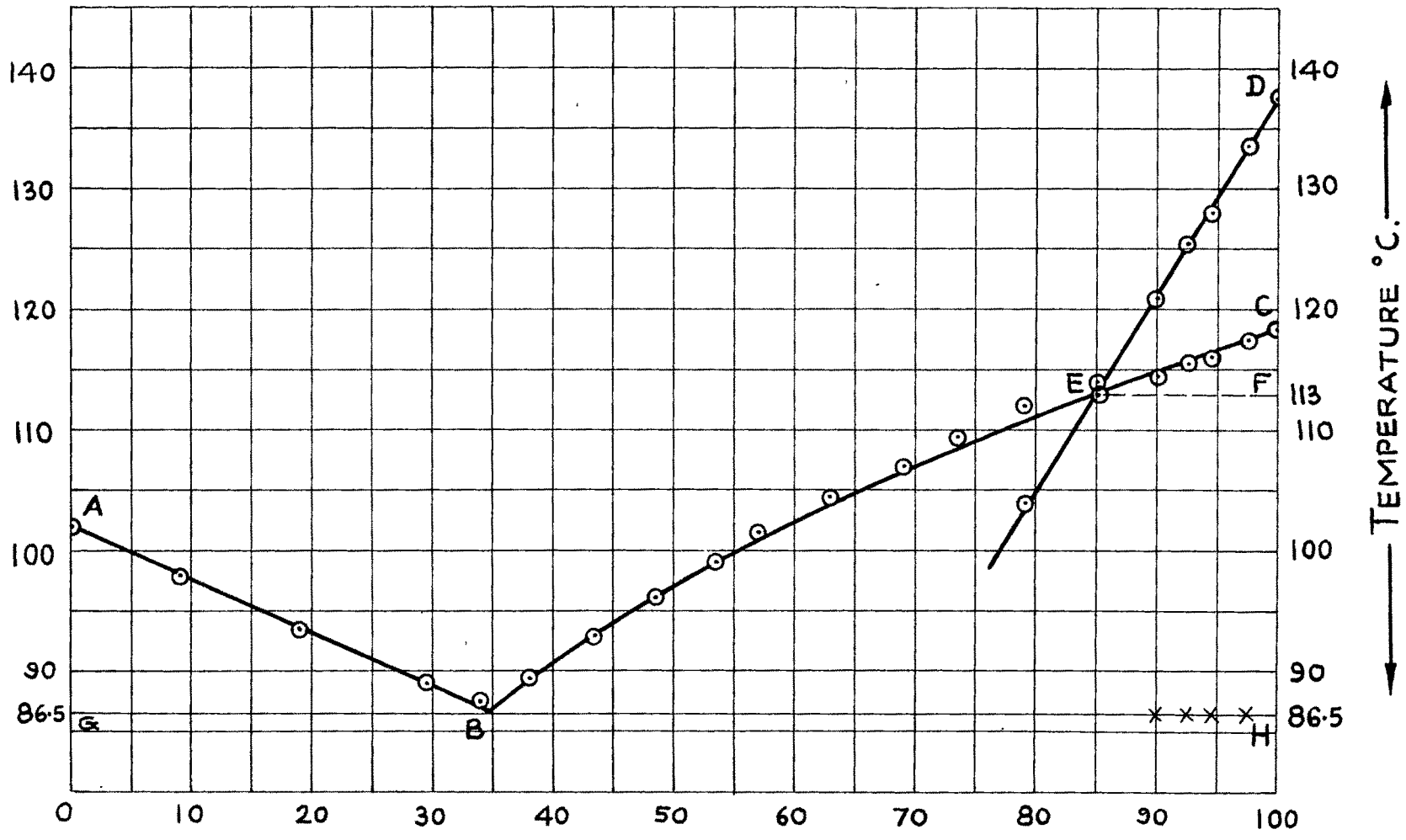

140
130
120
110
100
90
86·5
0
10
20
30
40
50
60
70
80
90
100
A
B
C
D
E
F
G
H
113
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: 4, 4'-DIMETHOXYCHALKONE.

FIG. 51

Table 50

p-Acetoxybenzal-p-phenetidine : 4,4'-Dimethoxychalkone

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.82	97.52	117.5	133.5
95.54	94.73	116.0	128.0
93.48	92.56	115.5	125.5
89.73	90.26	114.5	121.0
85.29	84.96	113.0	114.0
79.21	79.02	112.0	(104.0)
74.71	73.62	109.5	-
70.41	69.33	107.0	-
64.40	63.48	104.5	-
59.75	57.01	101.5	-
55.75	53.61	99.0	-
50.20	48.72	96.0	-
45.40	43.74	93.0	-
39.51	38.23	89.6	-
35.76	34.28	87.4	-
30.70	29.52	89.0	-
20.30	19.37	93.5	-
9.70	9.24	98.0	-
00.00	00.00	102.0	-

Sintering Point = 86.5°C.

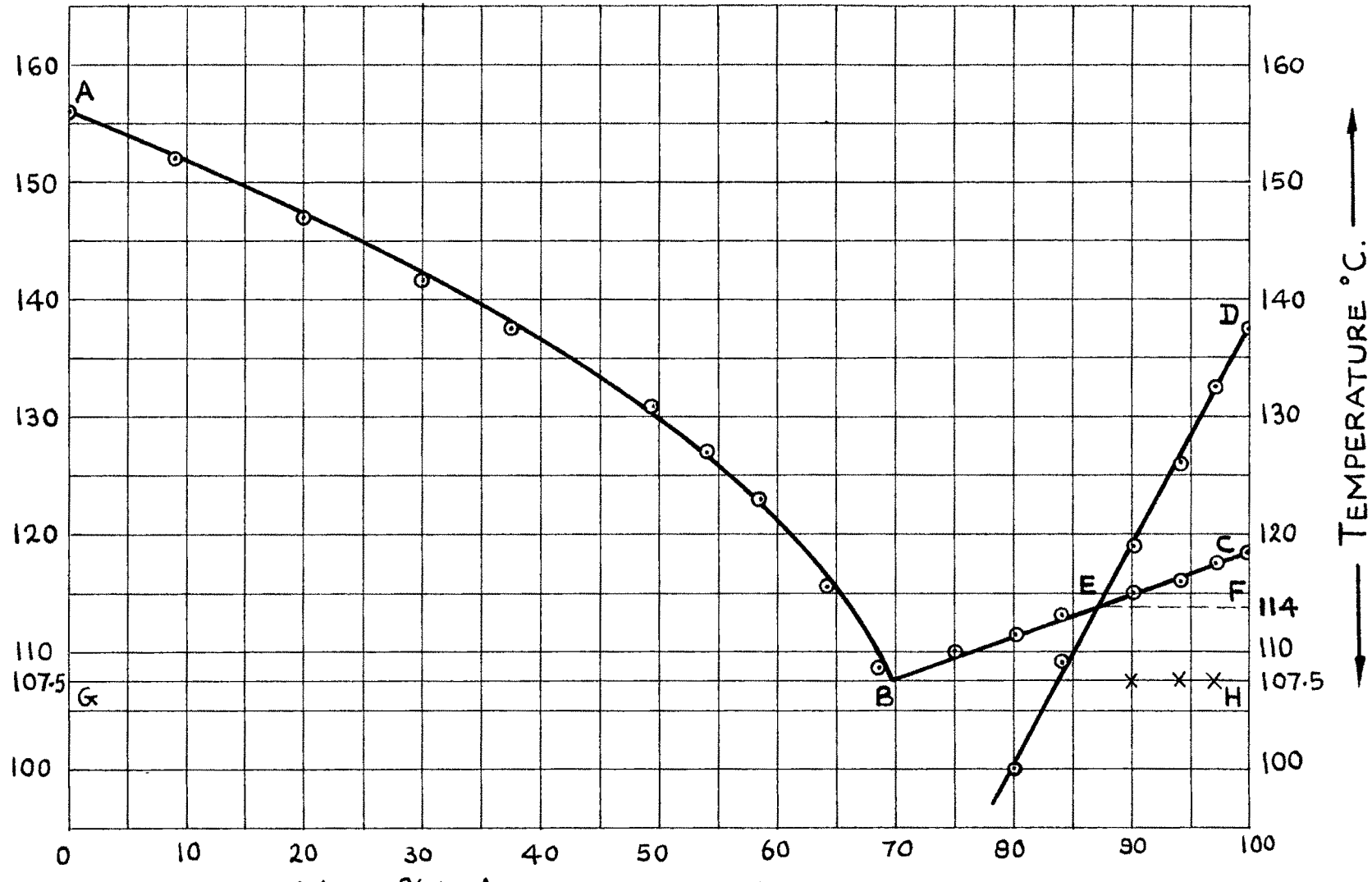

160
150
140
130
120
110
107.5
100
A
B
C
D
E
F
G
H
114
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE : 4, 4'-DICHLOROCHALKONE.

FIG. 52

Table 51

p-Acetoxybenzal-p-phenetidine : 4.4'-Dichlorochalkone

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.36	97.28	117.5	132.5
95.41	94.34	116.0	126.2
90.26	90.48	115.0	119.0
84.86	84.20	113.2	(109.0)
80.74	80.17	111.5	(100.0)
75.36	75.18	110.0	-
69.92	68.73	108.5	-
65.43	64.03	115.5	-
59.96	58.80	123.0	-
55.50	54.08	127.2	-
50.14	49.52	131.0	-
39.80	37.84	137.6	-
30.40	30.00	141.5	-
20.45	20.12	147.6	-
9.45	9.22	152.0	-
00.00	00.00	156.0	-

Sintering Point = 107.5°C.

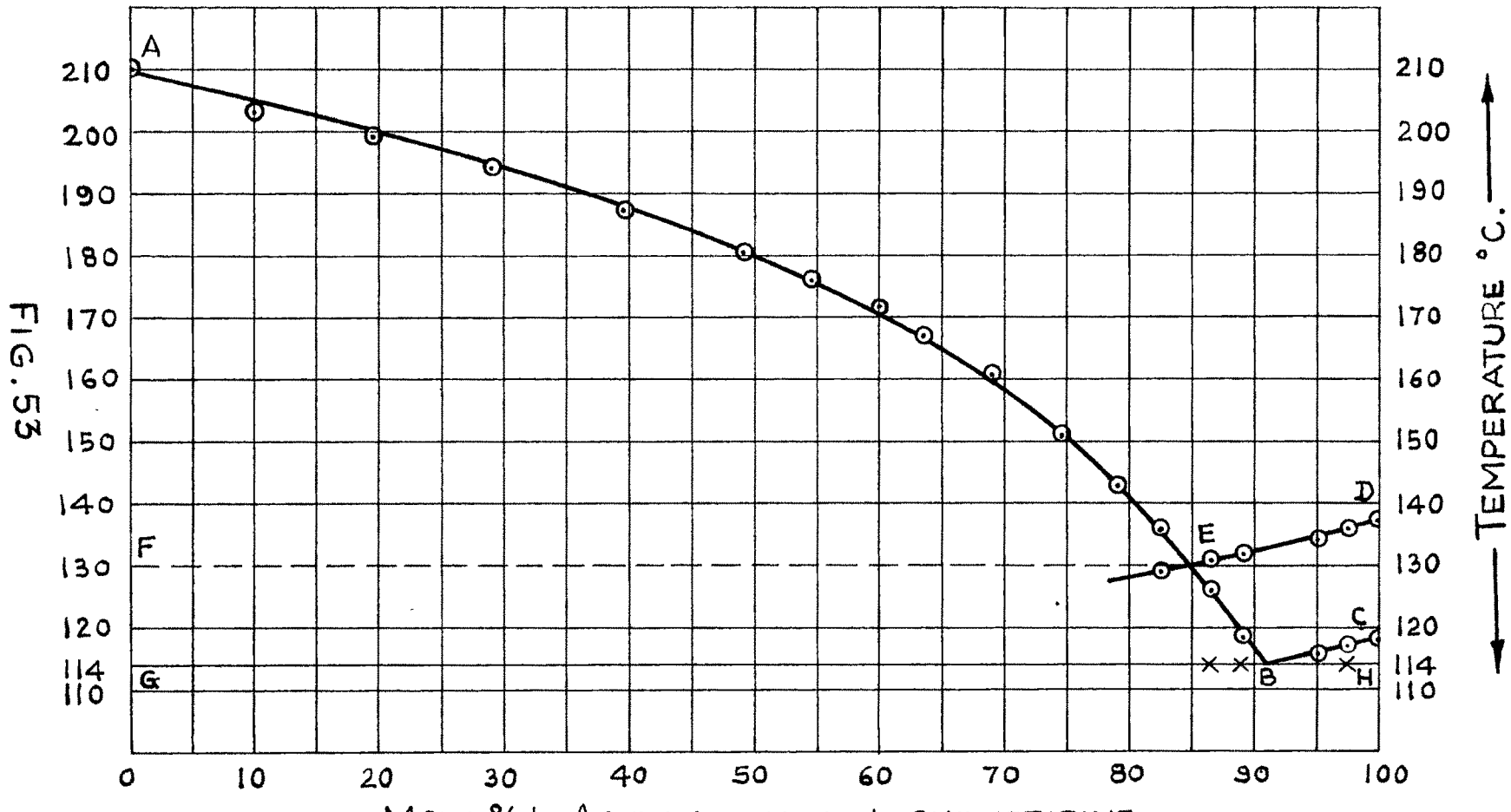


FIG. 53

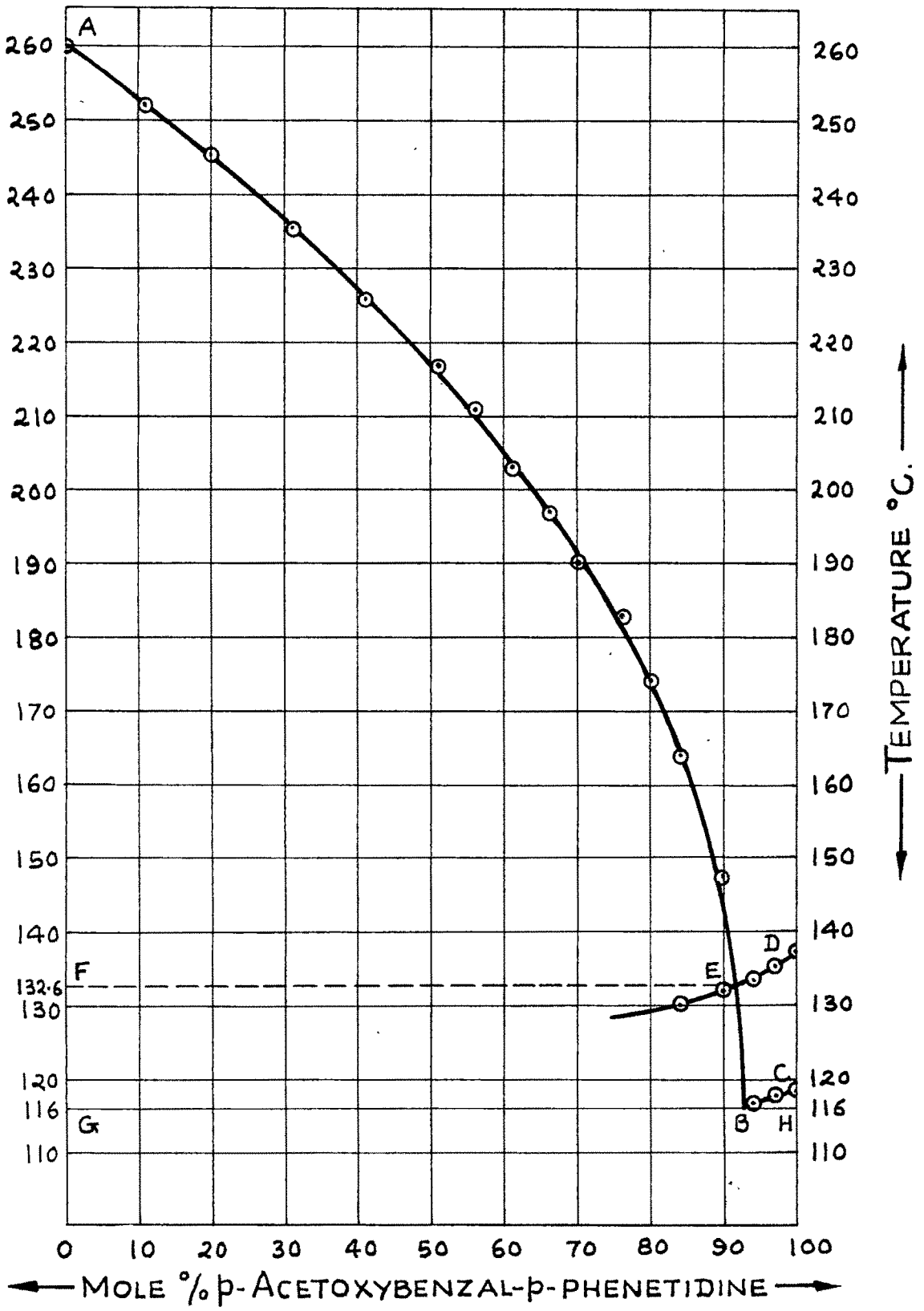
p-ACETOXYBENZAL-p-PHENETIDINE : 4,4'-DICHLOROBENZALAZINE.

Table 52

p-Acetoxybenzal-p-phenetidine : 4,4'-Dichlorobenzalazine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.84	97.52	117.2	136.0
95.37	94.91	116.0	134.2
89.73	89.28	118.5	132.0
87.24	86.64	126.0	130.8
84.86	82.86	136.0	(129.0)
80.05	79.49	143.0	-
75.56	74.66	151.0	-
70.50	69.24	160.8	-
64.76	63.84	167.0	-
60.74	60.02	171.5	-
55.34	54.50	176.0	-
49.90	49.07	180.5	-
40.25	39.77	187.0	-
29.90	29.07	193.5	-
20.20	19.59	198.6	-
10.65	10.34	203.0	-
00.00	00.00	210.0	-

Sintering Point = 114.0°C.


A
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G
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260
250
240
230
220
210
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190
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170
160
150
140
132·6
130
120
116
110
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ACETOXYBENZAL-p-PHENETIDINE
p-ACETOXYBENZAL-p-PHENETIDINE: 4,4'-DI(DIMETHYLAMINO)BENZALAZINE.

FIG. 54

Table 53

p-Acetoxybenzal-p-phenetidine : 4,4'-Di(dimethylamino) benzalazine

% of p-Acetoxybenzal-p-phenetidine.	Mole % of p-Acetoxybenzal-p-phenetidine.	M.P. in °C	T.P. in °C
100.00	100.00	118.5	137.5
98.02	97.24	117.8	135.2
95.70	94.79	117.0	133.5
90.95	89.99	147.5	(132.0)
84.57	84.55	164.0	(130.5)
80.44	80.60	174.0	-
75.95	76.12	183.0	-
69.97	70.62	190.0	-
65.43	66.04	197.0	-
61.10	61.72	203.0	-
55.94	56.18	211.0	-
50.55	51.12	217.0	-
40.76	41.25	226.0	-
30.40	31.19	235.0	-
19.90	20.48	245.4	-
11.10	11.35	252.0	-
00.00	00.00	260.0	-

Sintering Point = 116.0°C.

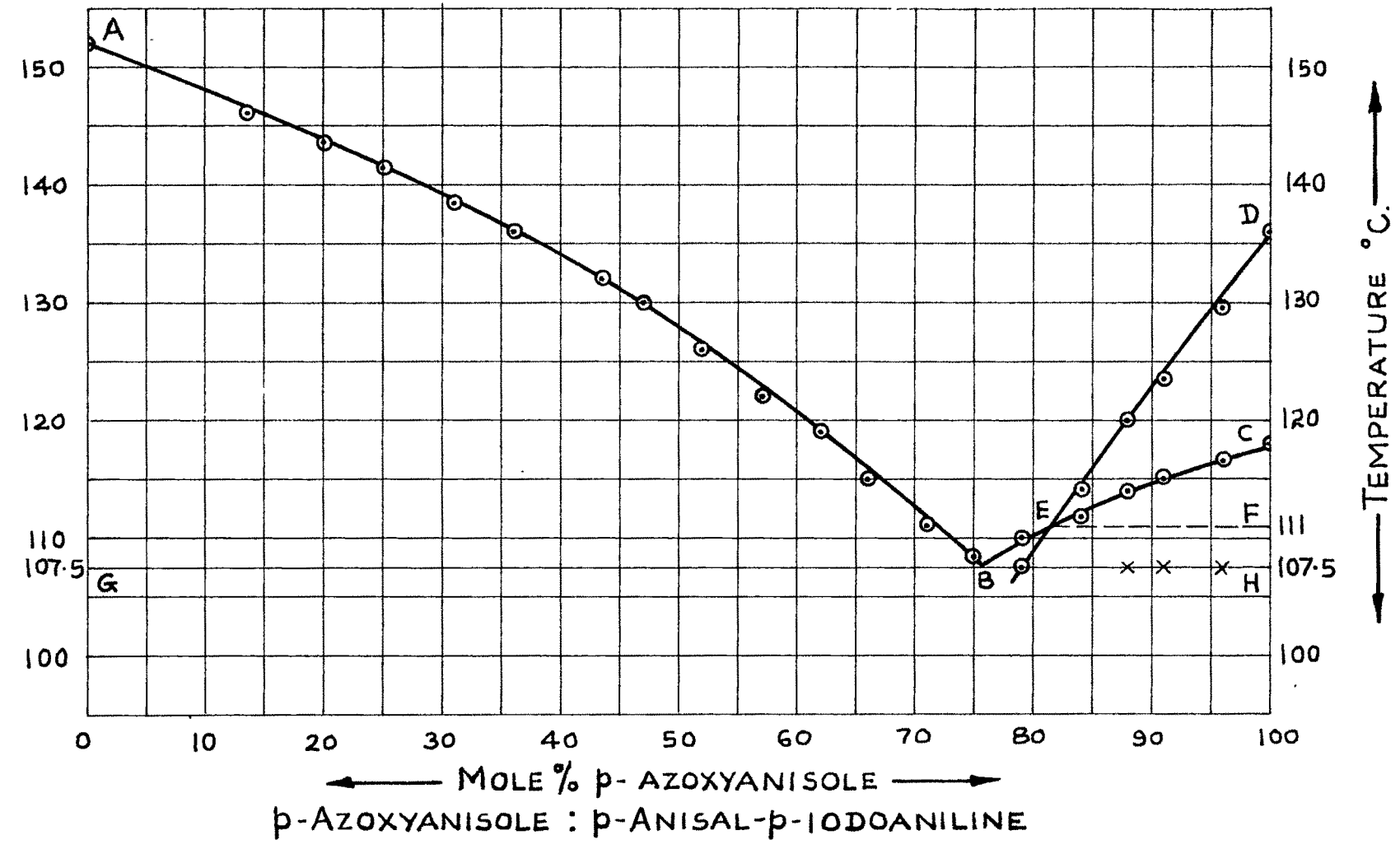

A
B
C
D
E
F
G
H
150
140
130
120
110
107·5
100
111
0
10
20
30
40
50
60
70
80
90
100
MOLE % p- AZOXYANISOLE
TEMPERATURE °C.
p-AZOXYANISOLE : p-ANISAL-p-IODOANILINE

FIG. 55

Table 54

p-Azoxyanisole : p-Anisal-p-iodoaniline

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
93.99	95.94	115.6	129.5
90.14	91.41	115.0	123.5
84.61	88.06	114.0	120.0
79.03	84.31	111.5	113.8
74.37	79.36	110.6	(107.5)
69.58	75.28	108.5	-
64.47	71.12	111.0	-
59.89	66.42	115.0	-
54.95	61.91	119.0	-
51.10	56.99	122.0	-
45.59	51.82	126.2	-
40.62	46.89	130.0	-
35.79	43.79	132.0	-
30.45	35.89	135.8	-
25.65	30.87	138.5	-
20.62	24.90	141.2	-
16.72	20.30	143.5	-
10.43	13.77	146.0	-
00.00	00.00	152.0	-

Sintering Point = 107.5°C.

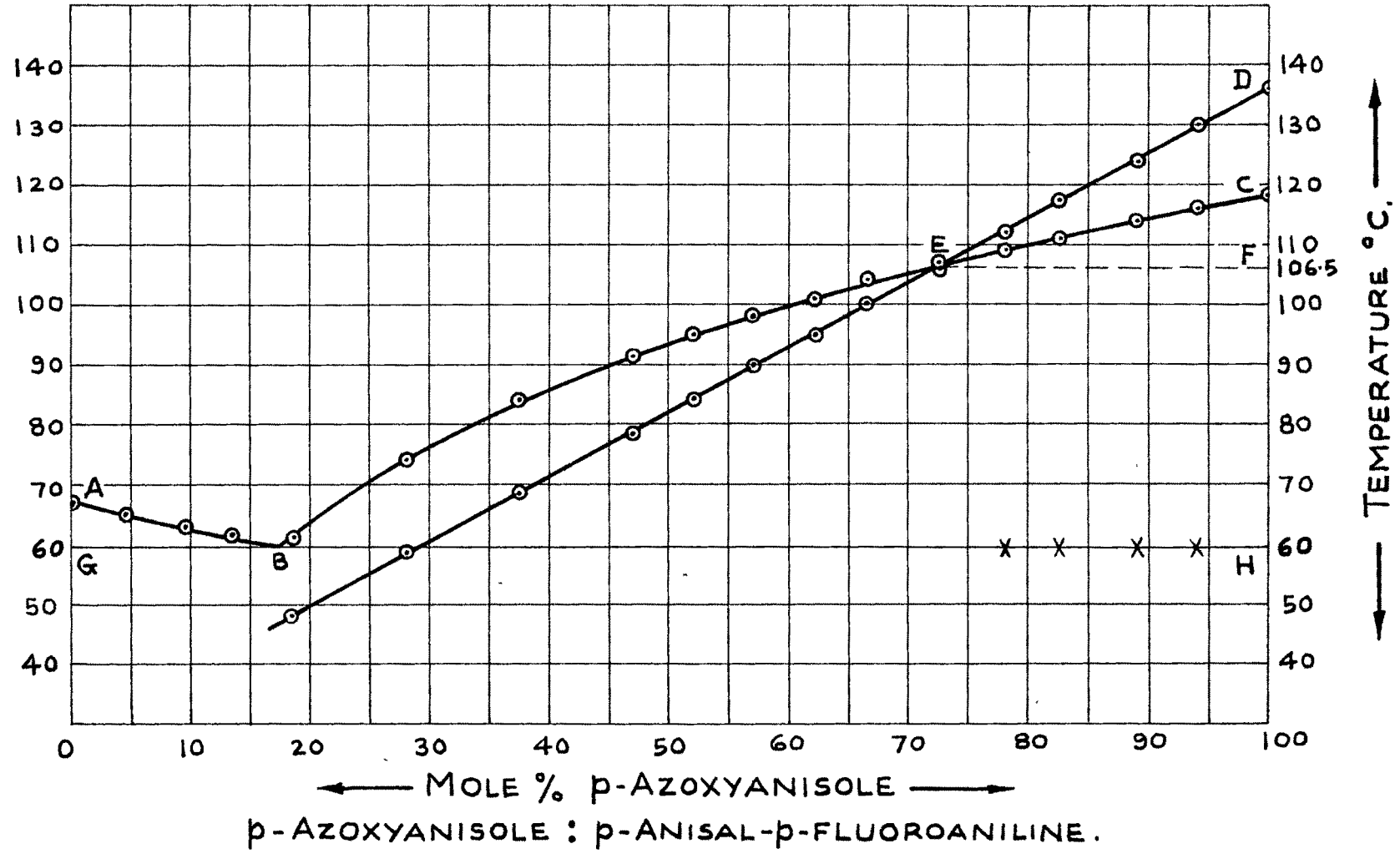

140
130
120
110
100
90
80
70
60
50
40
A
B
C
D
E
F
G
H
106·5
0
10
20
30
40
50
60
70
80
90
100
← MOLE % p-AZOXYANISOLE →
TEMPERATURE °C.
p-AZOXYANISOLE : p-ANISAL-p-FLUOROANILINE.

FIG. 56

Table 55

p-Azoxyanisole : p-Anisal-p-fluoroaniline

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
94.82	94.14	116.0	129.8
90.84	88.94	114.0	123.8
85.00	82.54	111.0	117.5
80.44	77.98	109.0	112.0
75.65	72.52	107.0	(106.2)
70.84	66.79	104.0	(100.5)
66.06	62.44	101.2	(95.2)
60.10	57.01	98.0	(89.8)
55.39	52.18	95.0	(84.5)
50.05	47.21	91.5	(78.5)
41.35	37.77	84.0	(68.6)
31.46	28.33	74.0	(58.5)
21.10	18.72	61.0	(48.0)
15.35	13.65	61.5	-
10.85	9.54	63.0	-
5.20	4.59	65.2	-
00.00	00.00	67.0	-

Sintering Point = 60.0°C.

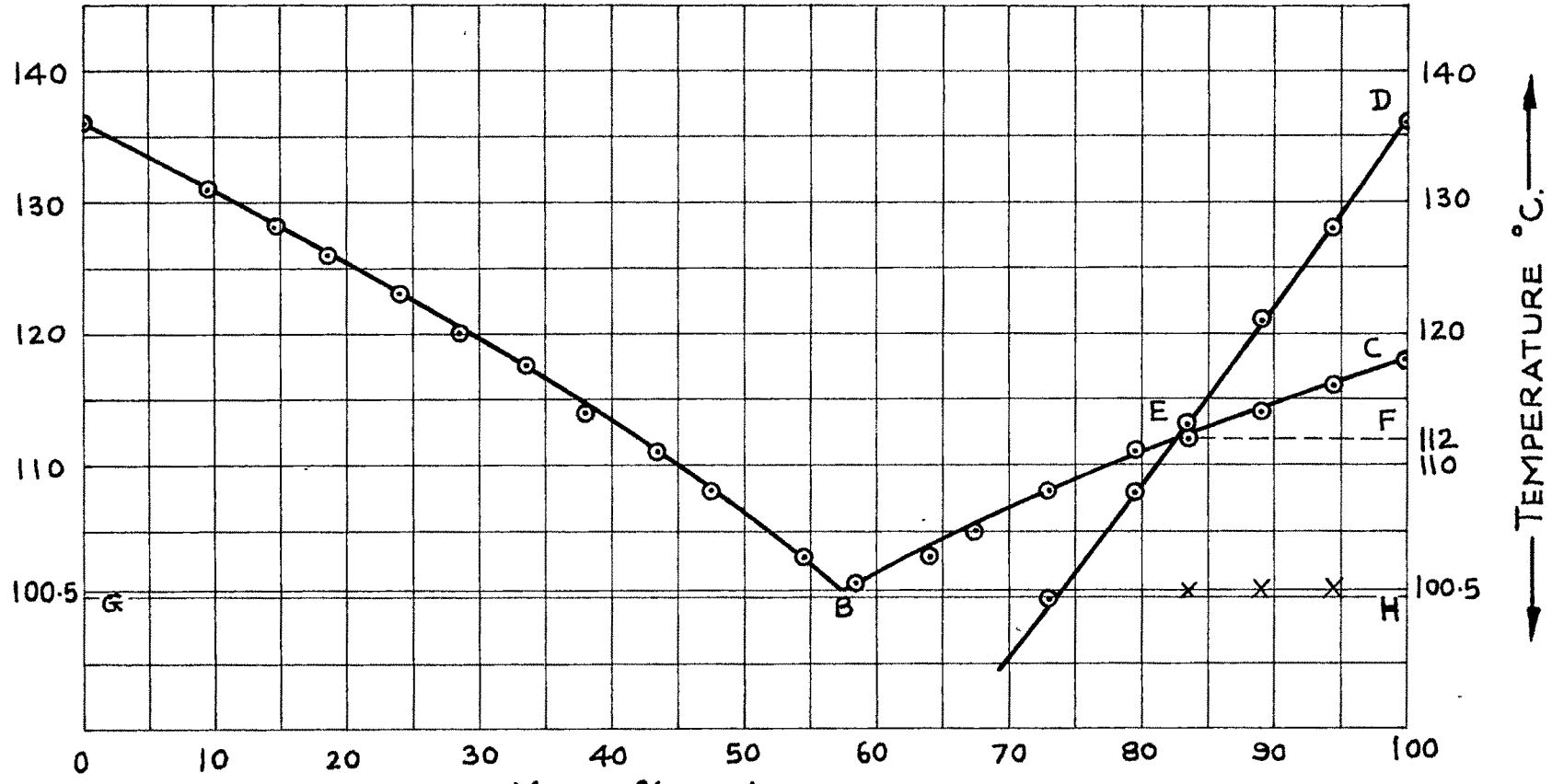


FIG. 57

p-AZOXYANISOLE : p-DIMETHYLAMINOBENZAL-p-FLUOROANILINE.

Table 56

p-Azoxyanisole : p-Dimethylaminobenzal-p-fluoroaniline

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
94.79	94.75	116.0	128.0
90.14	89.23	114.0	121.0
84.94	83.49	112.0	113.0
81.30	79.75	111.0	(108.0)
74.13	73.47	108.0	(100.0)
70.21	67.89	105.0	-
65.27	64.19	103.0	-
59.70	58.72	101.0	-
55.91	54.79	103.0	-
50.16	47.97	108.0	-
45.07	43.77	111.0	-
39.93	38.41	114.0	-
35.10	33.88	117.5	-
30.14	28.65	120.0	-
25.11	24.06	123.0	-
19.96	18.94	126.0	-
15.03	14.61	128.0	-
10.53	9.96	131.0	-
00.00	00.00	136.0	-

Sintering Point = 100.5°C.

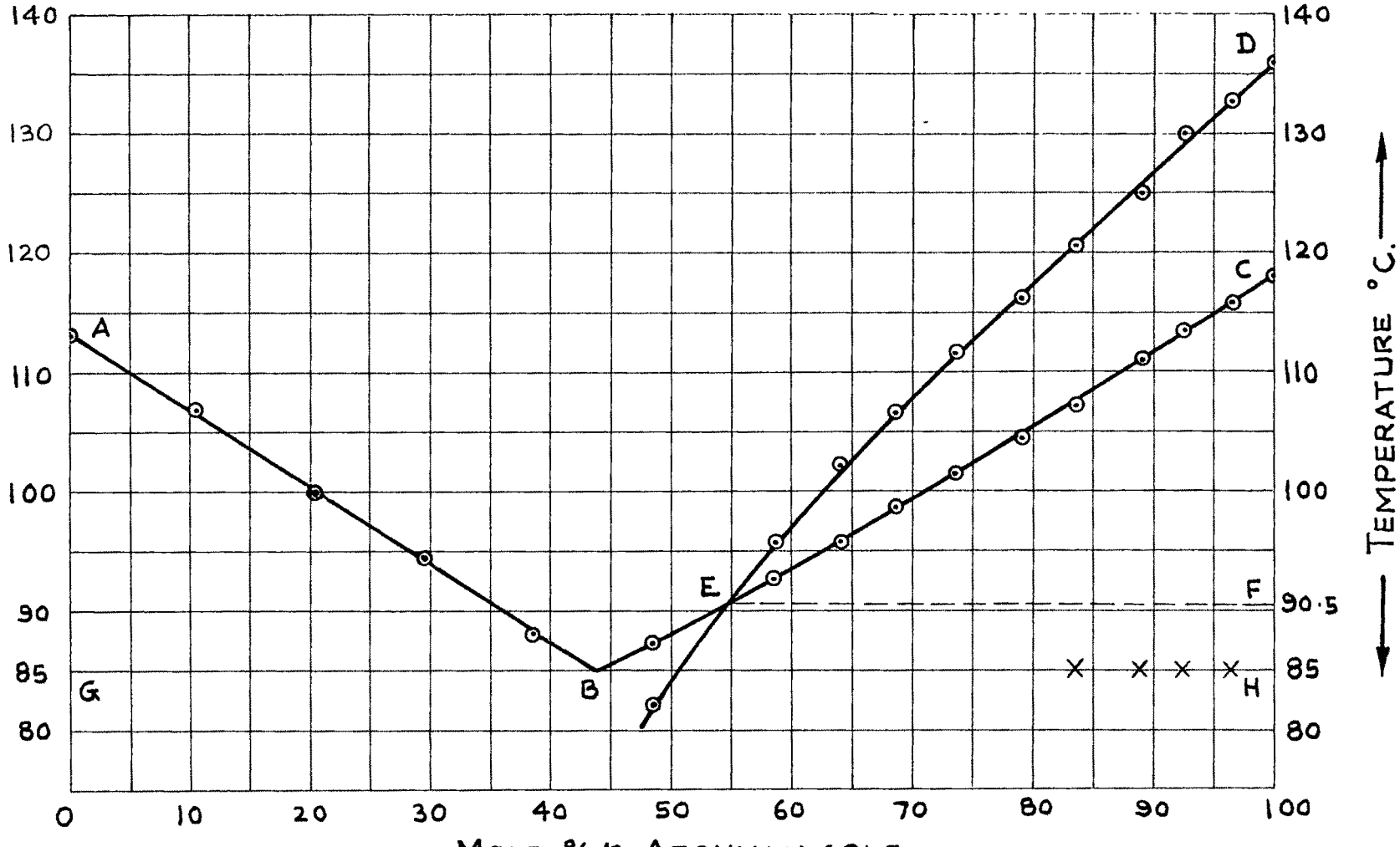

140
130
120
110
100
90
85
80
A
B
C
D
E
F
G
H
90·5
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-AZOXYANISOLE
p-AZOXYANISOLE : p-NITROBENZAL-p-FLUOROANILINE.

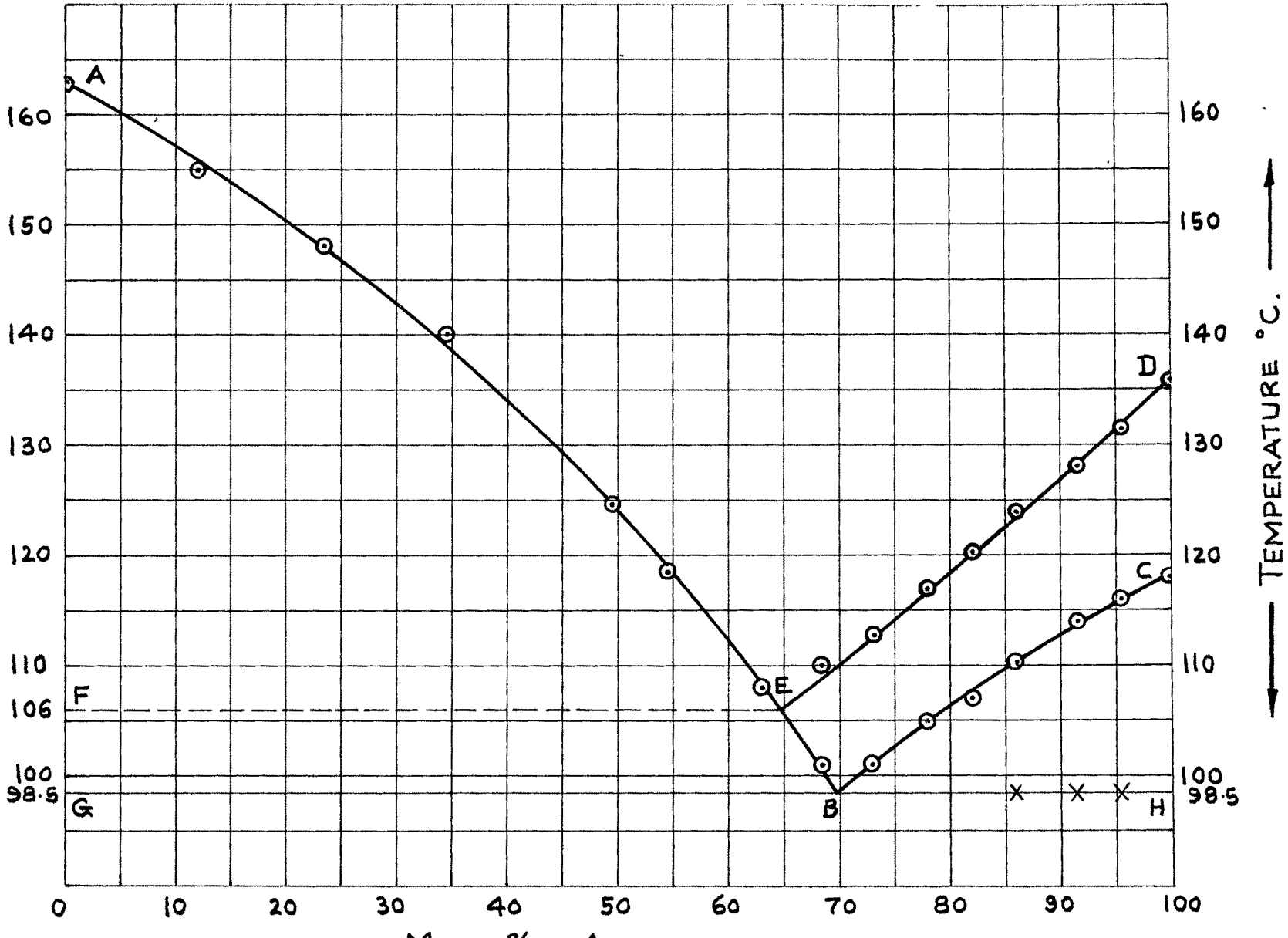
FIG. 58

Table 57

p-Azoxyanisole : p-Nitrobenzal-p-fluoroaniline

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
98.42	96.52	116.0	132.6
94.82	92.53	113.5	130.0
89.62	89.00	111.0	125.0
84.50	83.62	107.0	120.5
80.15	79.16	104.6	116.2
74.82	73.84	101.5	111.5
70.15	68.60	98.5	106.5
65.66	64.13	95.5	102.0
60.89	58.96	92.5	96.2
50.09	48.85	87.0	(82.0)
40.81	38.95	88.0	-
30.70	29.59	94.5	-
21.32	20.54	100.0	-
11.26	10.70	107.0	-
00.00	00.00	113.0	-

Sintering Point = 85.0°C.


A
B
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160
150
140
130
120
110
106
100
98·5
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-AZOXYANISOLE
p-AZOXYANISOLE : p-NITROBENZAL-p-BROMOANILINE.

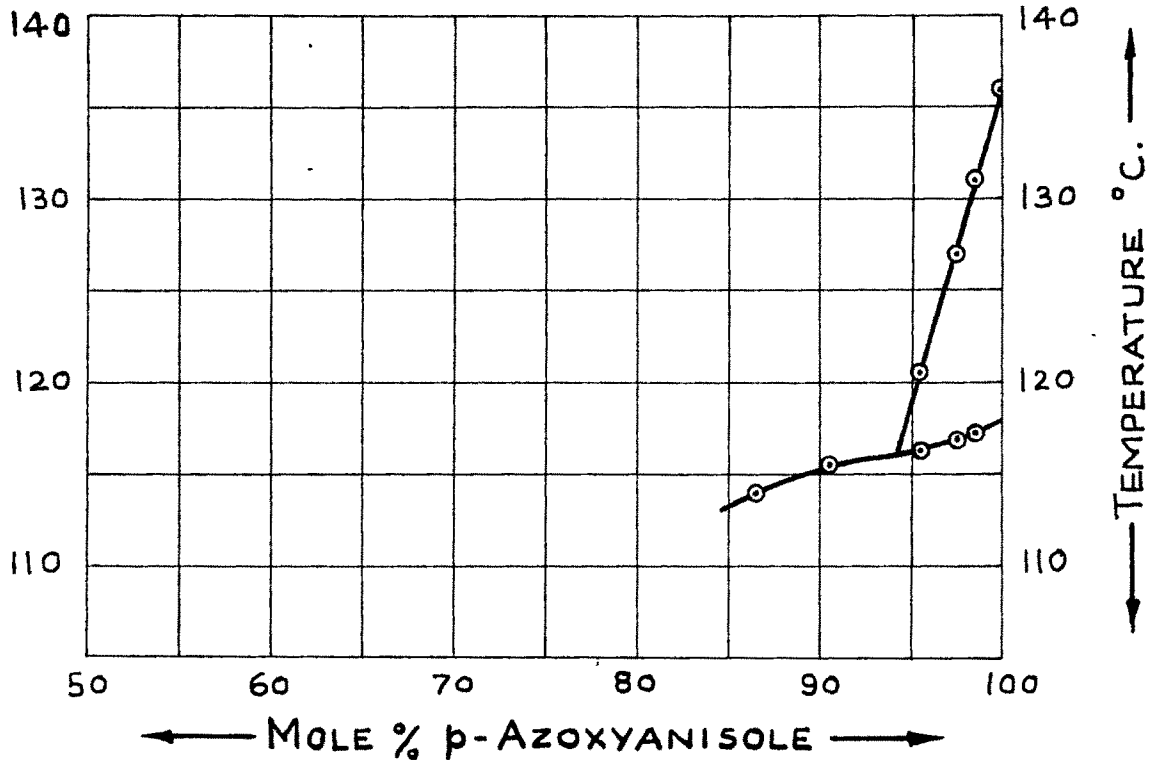
FIG. 59

Table 58

p-Azoxyanisole : p-Nitrobenzal-p-bromoaniline

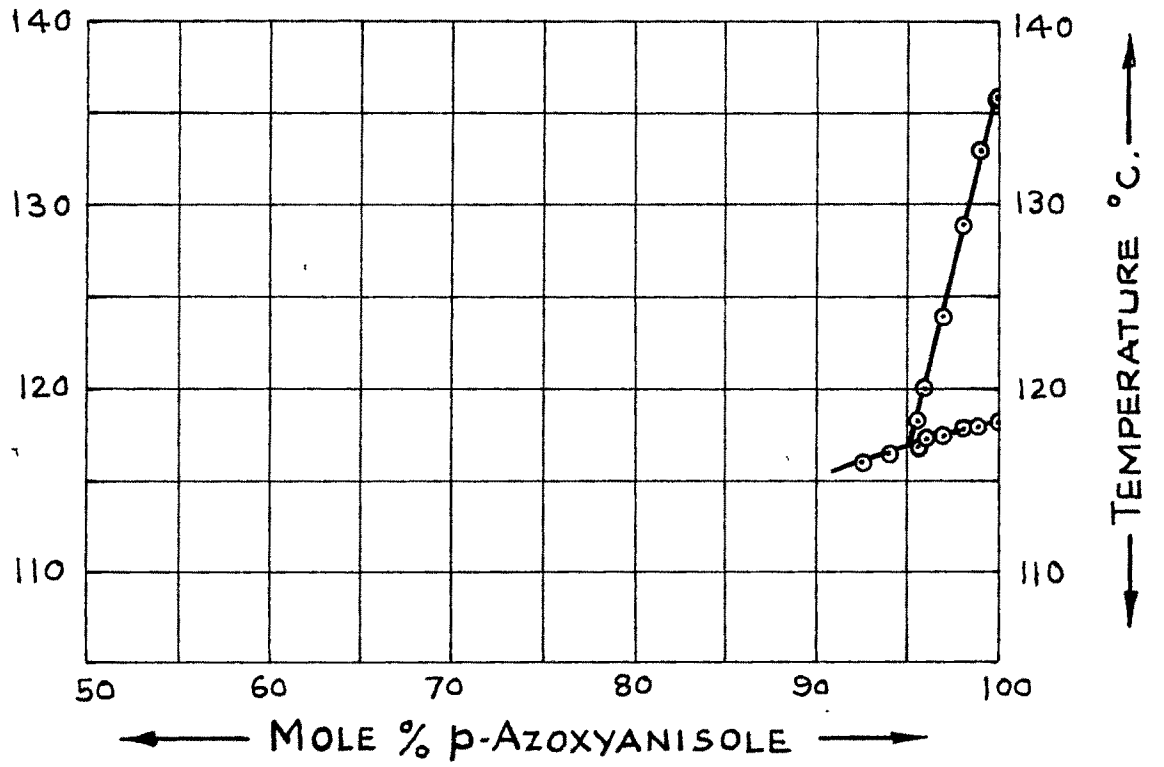
% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
94.84	95.59	116.0	131.0
90.99	91.62	114.0	128.0
84.94	86.28	110.0	124.0
80.05	82.45	107.0	120.5
75.06	78.23	105.0	117.0
69.18	73.07	101.0	113.0
64.80	68.96	101.0	110.0
58.51	63.36	108.0	-
50.95	54.62	118.5	-
40.23	49.87	124.5	-
31.30	34.59	140.0	-
20.71	23.48	148.0	-
8.36	12.12	155.0	-
00.00	00.00	163.0	-

Sintering Point = 98.5°C.



p-AZOXYANISOLE : 4,4'-DIMETHOXY-3,3'-DIACETYLBIPHENYL.

FIG. 60



p-AZOXYANISOLE: 6',6'''-DIHYDROXY-4,4''DIMETHOXY-3',3'''-BICHALCONYL.

FIG. 61.

Table 59

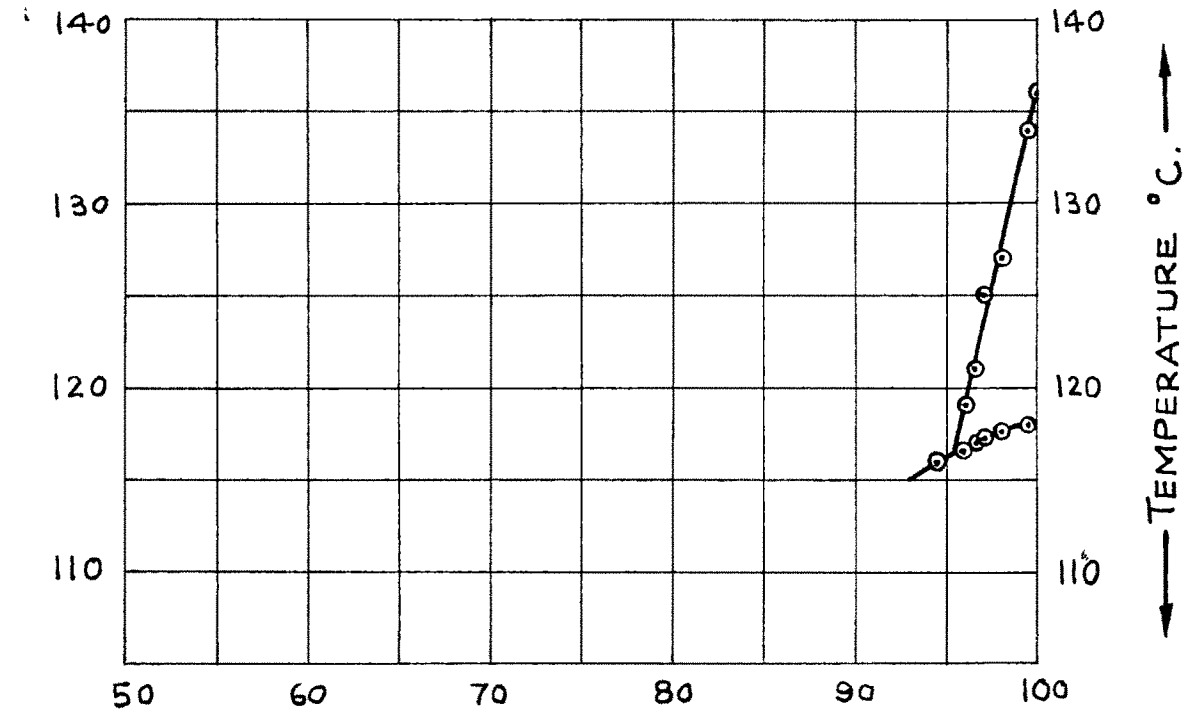
p-Azoxyanisole : 4,4'-Dimethoxy-3,3'-diacetylbiphenyl

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
98.58	98.70	117.0	131.0
97.18	97.59	116.5	127.0
95.37	95.50	116.0	120.5
89.08	90.63	115.5	-
84.61	86.62	114.0	-
00.00	00.00	148.0	-

Table 60

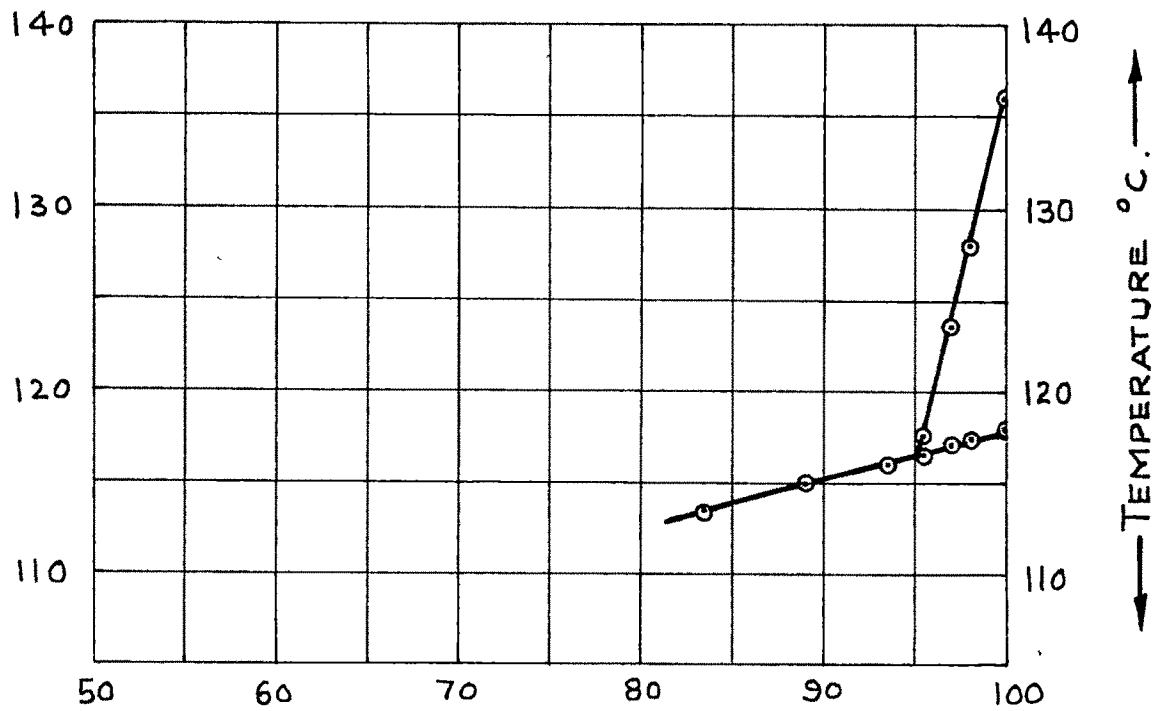
p-Azoxyanisole : 6,6'''-Dihydroxy-4,4''-dimethoxy-3,3'''-bichalconyl

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
99.49	99.49	117.8	133.0
97.07	98.33	117.5	129.0
95.13	97.12	117.4	124.2
93.74	96.63	117.2	120.0
92.45	95.96	116.8	118.5
89.23	94.21	116.5	-
88.12	92.50	116.0	-
00.00	00.00	226.0	-



p-AZOXYANISOLE: 6',6'''-DIHYDROXY-3',3''' BICHALCONYL.

FIG. 62



p-AZOXYANISOLE : TRIPHENYLMETHANE.

FIG. 63

Table 61

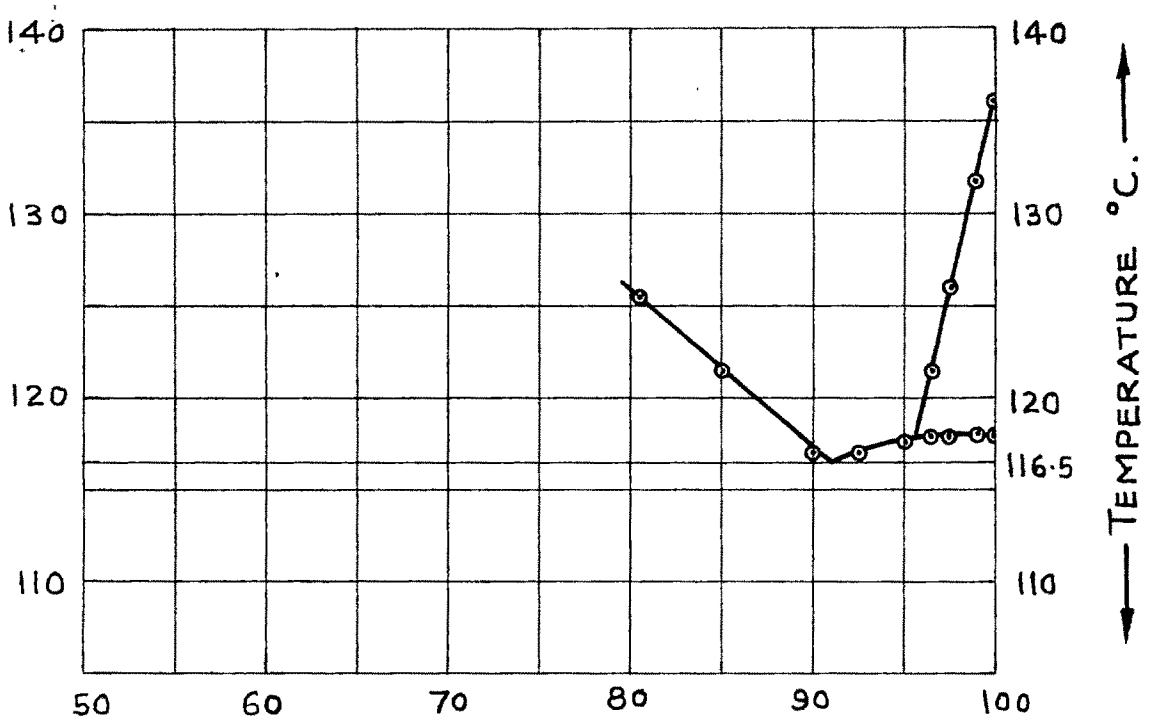
p-Azoxyanisole : 6,6'''-Dihydroxy-3,3'''-bichalconyl

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
97.77	99.54	118.0	134.0
98.63	98.37	117.8	127.0
95.83	97.95	117.2	125.2
94.84	97.14	117.0	121.0
93.99	96.61	116.5	119.0
91.39	94.52	116.0	-
00.00	00.00	203.0	-

Table 62

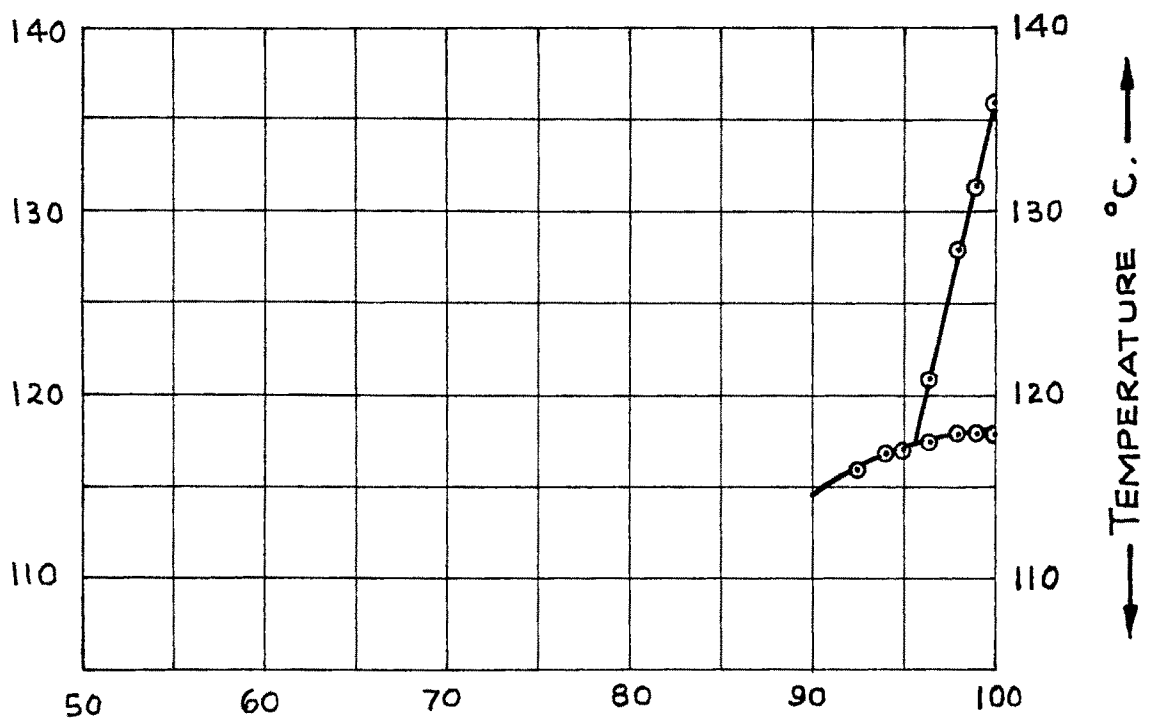
p-Azoxyanisole : Triphenylmethane

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
98.28	98.49	117.5	128.0
97.47	97.14	117.0	123.5
96.12	95.90	116.5	117.5
95.23	93.80	116.0	-
89.30	89.08	115.0	-
84.57	83.62	113.5	-
00.00	00.00	92.0	-



p-AZOXYANISOLE : 2,2',6,6'-TETRAMETHOXYBIPHENYL.

FIG. 64



p-AZOXYANISOLE : 7-BENZOYLOXY-3-BENZOYLFLAVONE.

FIG. 65

Table 63

p-Azoxyanisole : 2,2',6,6'-Tetramethoxybiphenyl

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
99.86	99.37	118.0	131.8
98.70	97.59	118.0	126.0
96.27	96.57	117.8	121.5
94.45	95.07	117.5	-
93.39	92.54	117.0	-
90.14	90.57	117.0	-
85.13	85.49	121.6	-
79.36	80.54	125.5	-
00.00	00.00	175.0	-

Table 64

p-Azoxyanisole : 7-Benzoyloxy-3-benzoylflavone

% of p-Azoxyanisole	Mole % of p-Azoxyanisole	M.P. in °C	T.P. in °C
100.00	100.00	118.0	136.0
98.74	99.28	118.0	131.5
97.47	98.19	118.0	128.0
95.28	96.68	117.5	121.0
92.12	95.02	117.5	-
89.25	94.48	117.0	-
84.94	92.53	116.0	-
00.00	00.00	167.0	-

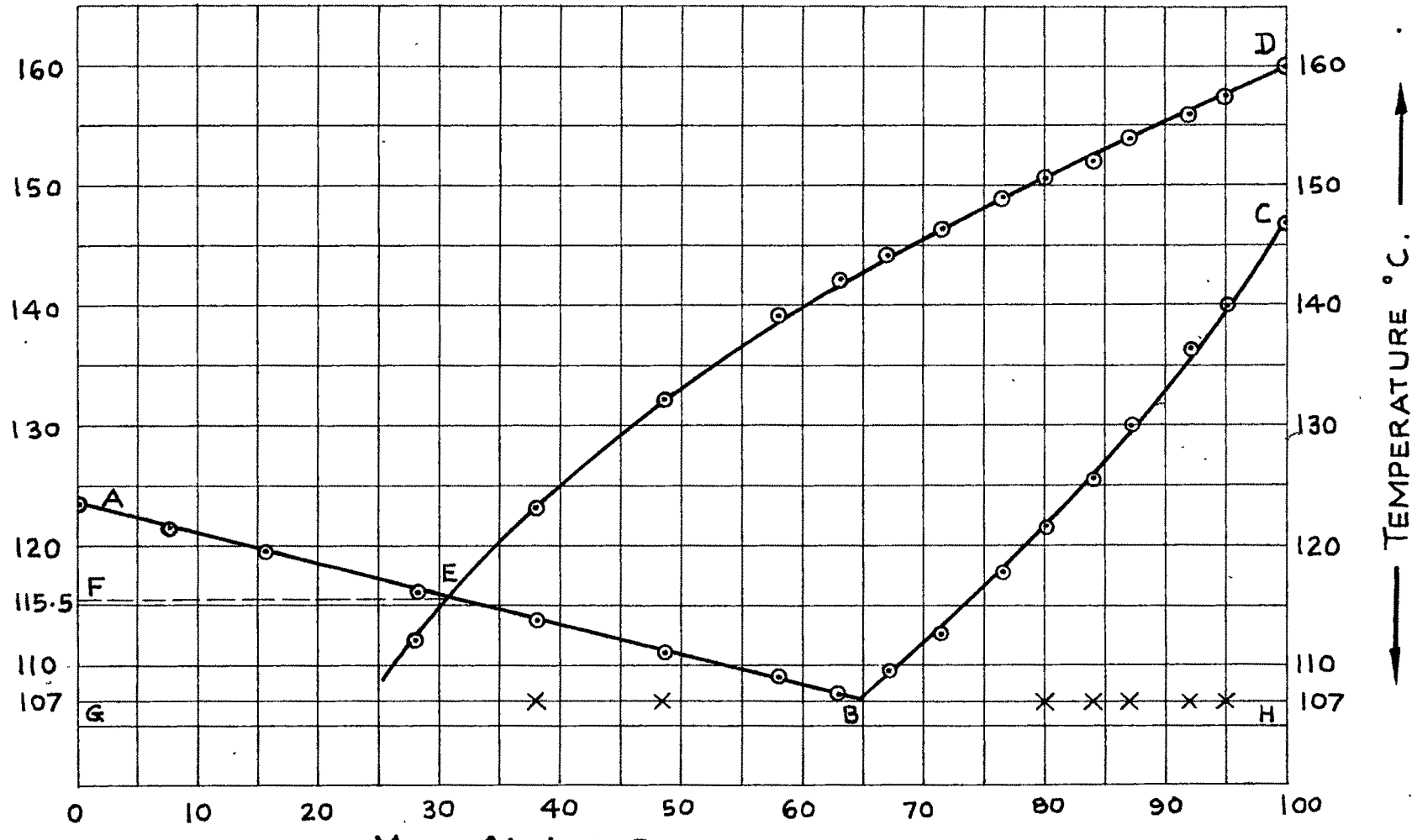


FIG. 66

p-n-BUTOXYBENZOIC ACID : p-NITROBENZAL-p- PHENETIDINE.

Table 65

p-n-Butoxybenzoic acid : p-Nitrobenzal-p-phenetidine

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
96.40	95.30	140.0	157.5
90.69	92.02	136.4	156.0
85.90	87.12	130.0	154.0
80.34	84.24	125.5	152.0
75.36	80.17	121.5	150.5
70.84	76.93	117.6	149.0
64.66	71.73	112.5	146.5
60.34	67.31	109.8	144.0
55.39	63.23	107.5	142.0
50.59	58.34	109.2	139.0
41.26	48.58	111.0	132.0
30.90	38.07	114.2	123.0
21.96	27.53	116.0	(112.0)
11.85	15.45	119.6	-
4.92	7.64	121.5	-
00.00	00.00	123.5	-

Sintering Point = 107.0°C.

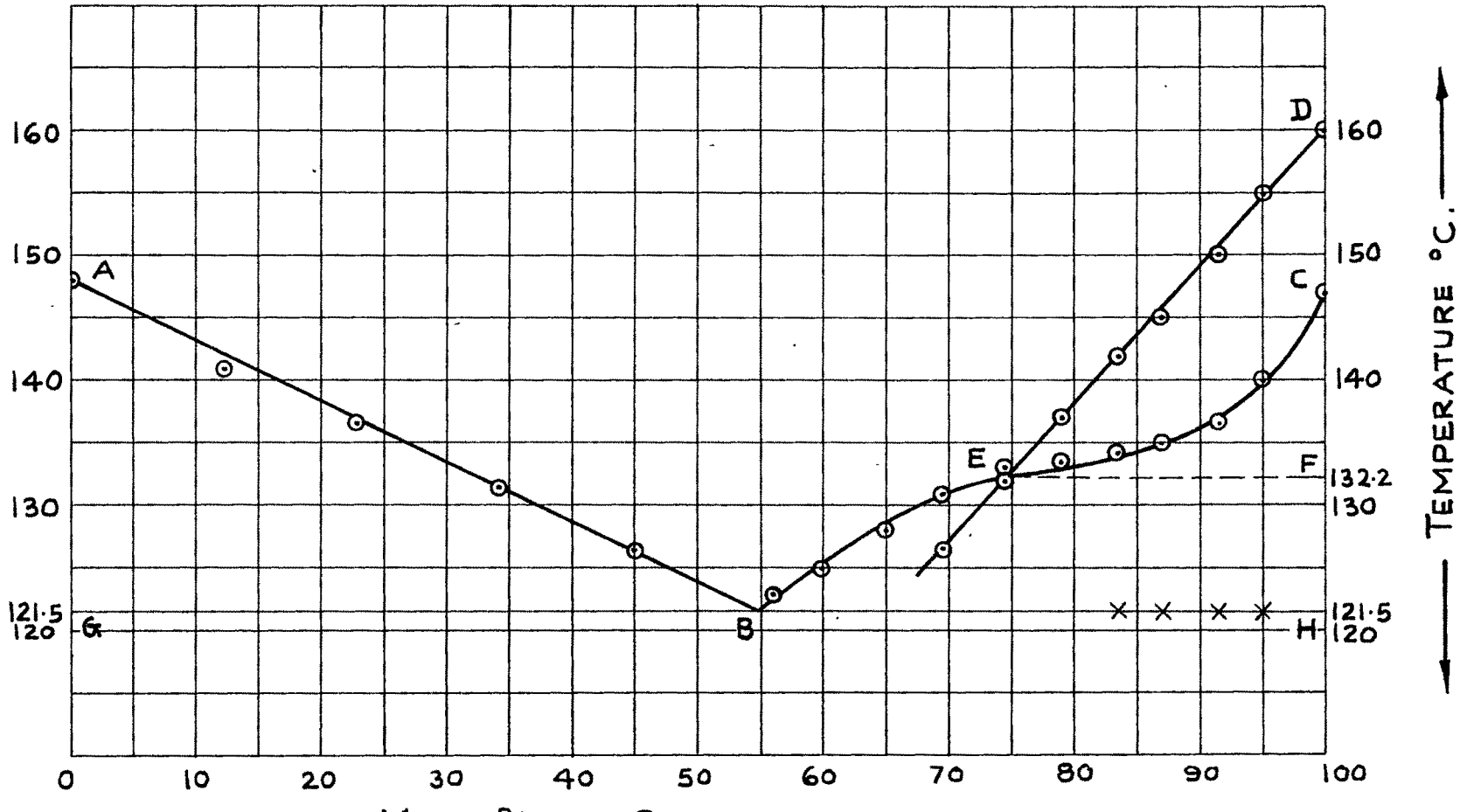


FIG. 67

p-n-BUTOXYBENZOIC ACID : p-ANISAL-p-ANISIDINE.

Table 66

p-n-Butoxybenzoic acid : p-Anisal-p-anisidine

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
95.94	94.99	140.0	155.0
90.65	91.56	136.5	150.0
84.67	87.14	135.0	145.2
79.91	83.83	134.4	142.0
76.14	79.41	133.5	137.0
70.39	74.56	133.0	(132.0)
64.66	69.77	131.0	(126.5)
59.96	65.12	128.0	-
55.39	60.12	125.0	-
50.24	55.84	123.0	-
40.21	45.36	126.5	-
29.95	34.73	131.6	-
19.50	23.15	136.5	-
10.35	12.45	141.0	-
00.00	00.00	148.0	-

Sintering Point = 121.5°C.

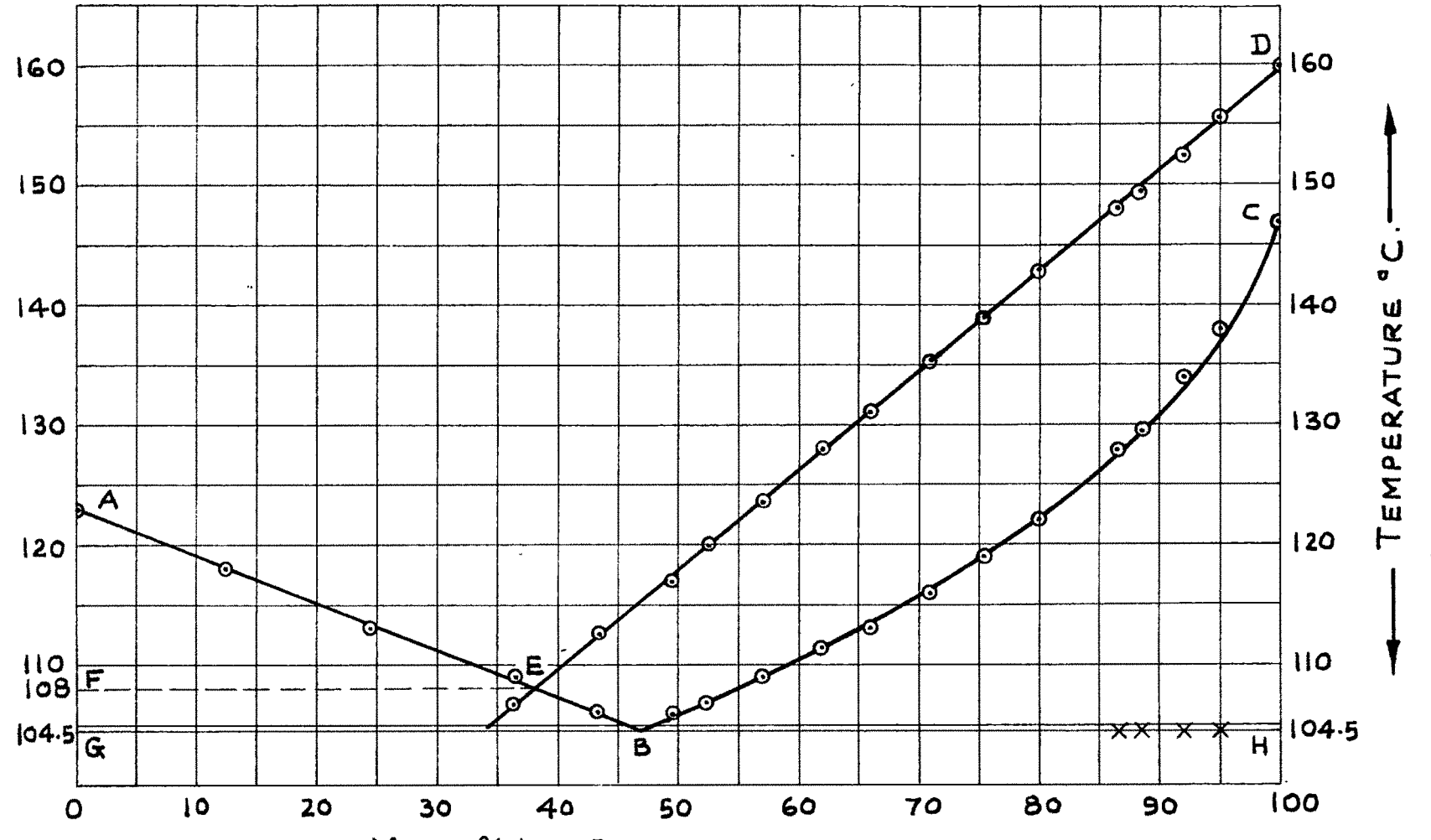

160
150
140
130
120
110
108
104.5
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-BUTOXYBENZOIC ACID
p-n-BUTOXYBENZOIC ACID: p-CHLOROBENZAL-p-PHENETIDINE

FIG. 68

Table 67

p-n-Butoxybenzoic acid : p-Chlorobenzal-p-phenetidine

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in ^{o}C	T.P. in ^{o}C
100.00	100.00	147.0	160.0
96.01	95.41	138.0	155.5
90.44	92.39	134.0	152.5
85.41	88.92	129.8	149.6
80.39	86.58	128.2	147.5
75.44	80.19	122.0	143.0
70.20	75.65	118.8	139.0
64.82	71.09	116.0	135.5
60.01	66.18	113.0	131.0
54.92	62.04	111.6	128.2
49.65	57.35	109.0	123.5
43.84	52.56	107.0	120.0
40.51	49.62	106.0	117.0
35.46	43.52	106.2	112.5
30.05	36.61	109.0	(106.8)
19.55	24.62	113.0	-
9.90	12.83	118.0	-
00.00	00.00	123.0	-

Sintering Point = 104.5^{o}C.

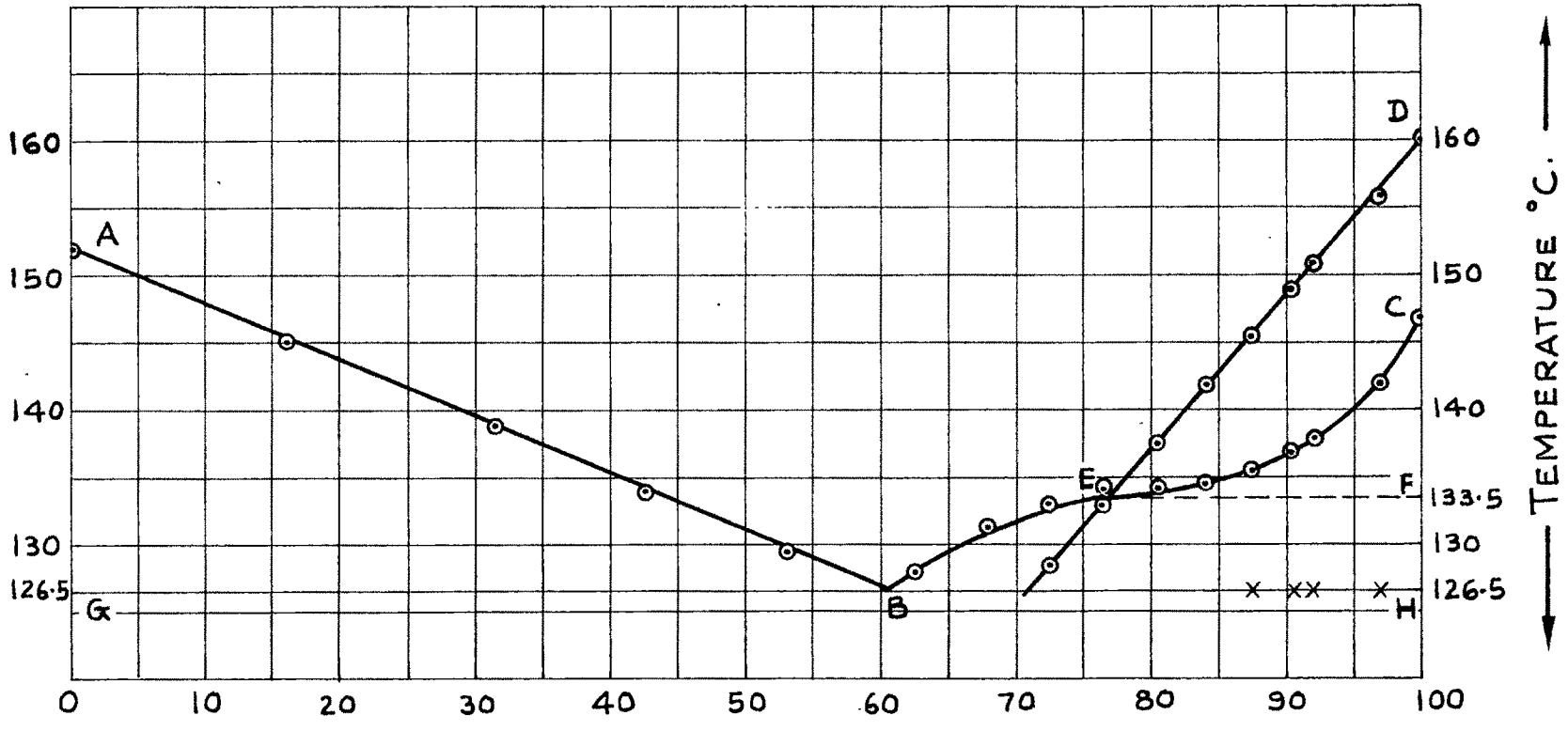


FIG. 69

p-n-BUTOXYBENZOIC ACID: p-ANISAL-p-IODOANILINE

Table 68

p-n-Butoxybenzoic acid : p-Anisal-p-iodoaniline

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
96.10	97.38	142.0	156.0
90.69	92.04	138.0	151.0
85.23	90.88	137.0	149.0
80.05	87.54	135.5	145.5
75.65	84.43	134.5	142.0
69.81	80.54	134.0	137.5
65.55	76.76	134.0	(133.0)
60.43	72.51	133.0	(128.5)
55.84	68.25	131.8	-
50.05	62.72	128.0	-
40.15	53.20	129.5	-
31.00	42.82	134.0	-
21.05	31.60	139.0	-
10.00	16.16	145.0	-
00.00	00.00	152.0	-

Sintering Point = 126.5°C.

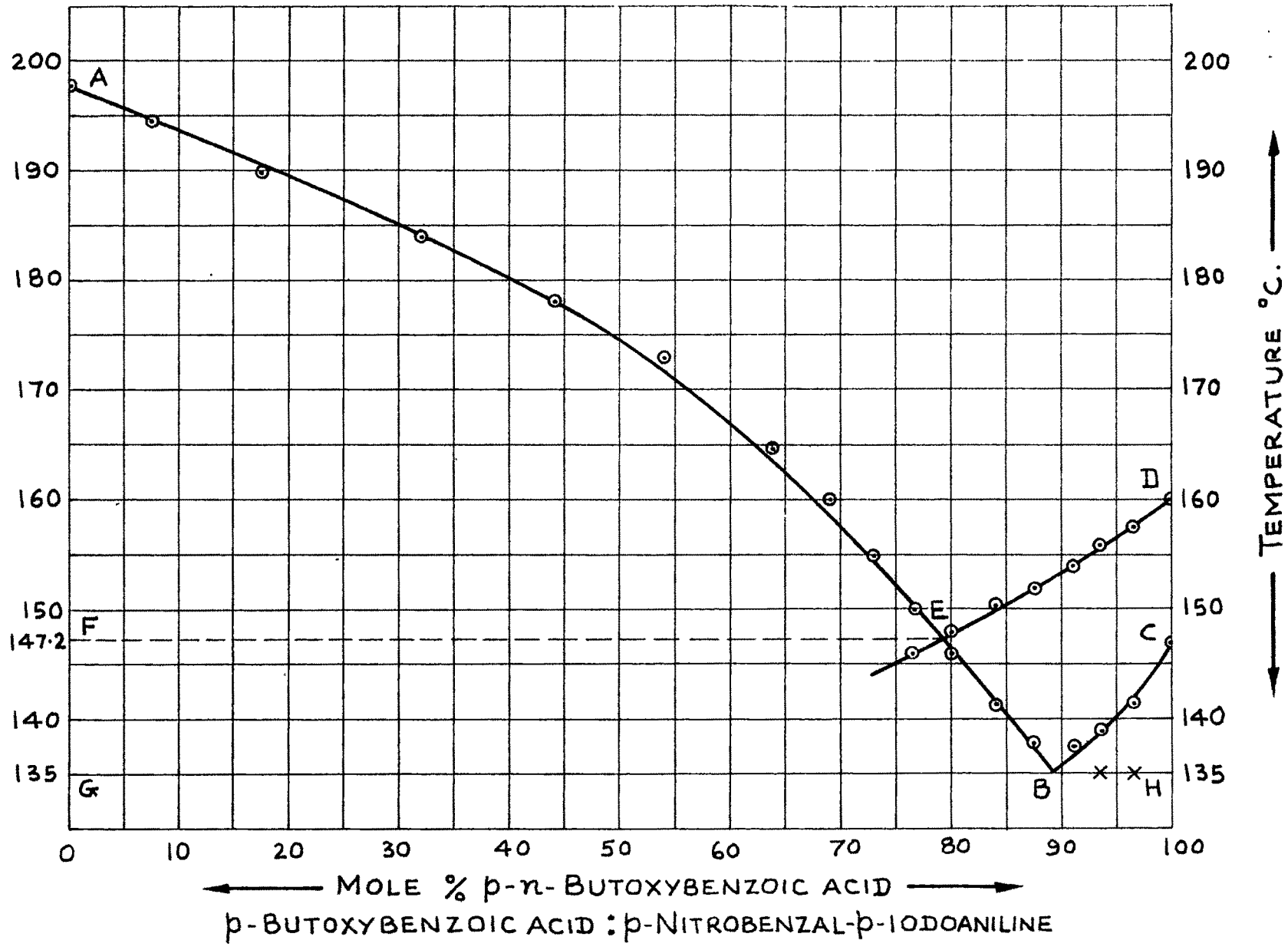

200
190
180
170
160
150
147·2
140
135
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-BUTOXYBENZOIC ACID
p-BUTOXYBENZOIC ACID : p-NITROBENZAL-p-IODOANILINE

FIG. 70

Table 69

p-n-Butoxybenzoic acid : p-Nitrobenzal-p-iodoaniline

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in ^{o}C	T.P. in ^{o}C
100.00	100.00	147.0	160.0
94.66	96.79	141.5	157.5
89.32	93.96	139.0	156.0
84.76	91.31	137.5	154.0
79.87	87.68	138.0	152.2
74.76	84.29	141.4	150.5
69.50	80.48	146.0	148.0
65.00	76.76	150.0	(145.8)
60.94	73.13	155.0	-
56.06	69.24	160.0	-
50.29	64.40	164.5	-
39.36	53.96	173.0	-
30.31	44.26	178.0	-
20.84	32.45	183.8	-
10.50	17.50	190.0	-
2.42	7.50	194.5	-
00.00	00.00	198.0	-

Sintering Point = 135.0^{o}C.

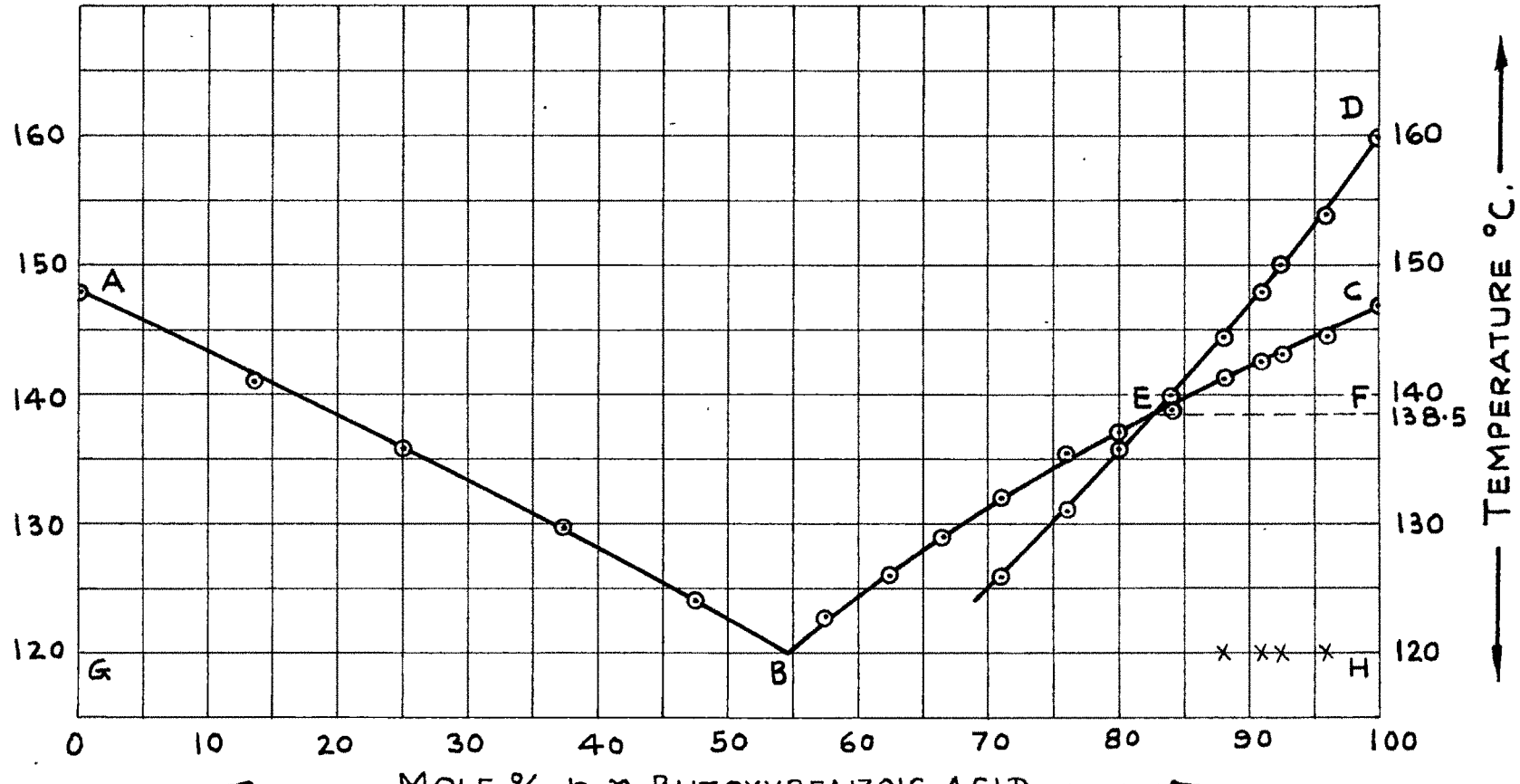


FIG. 71

p-n-BUTOXYBENZOIC ACID: p-DIMETHYLAMINOBENZAL-p-PHENETIDINE.

Table 70

p-n-Butoxybenzoic acid : p-Dimethylaminobenzal-p-phenetidine

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
95.01	96.49	144.5	154.0
90.31	92.64	143.0	150.0
85.39	91.01	142.5	148.0
82.84	88.08	141.0	144.5
79.56	84.03	139.0	140.0
74.76	80.11	137.0	(136.0)
69.97	76.07	135.5	(131.4)
64.76	71.36	132.0	(126.0)
59.75	66.89	129.0	-
55.20	62.52	126.2	-
50.00	57.80	123.0	-
39.36	47.56	124.0	-
30.35	37.58	130.0	-
19.70	25.35	136.0	-
10.45	13.66	141.0	-
00.00	00.00	148.0	-

Sintering Point = 120.0°C.

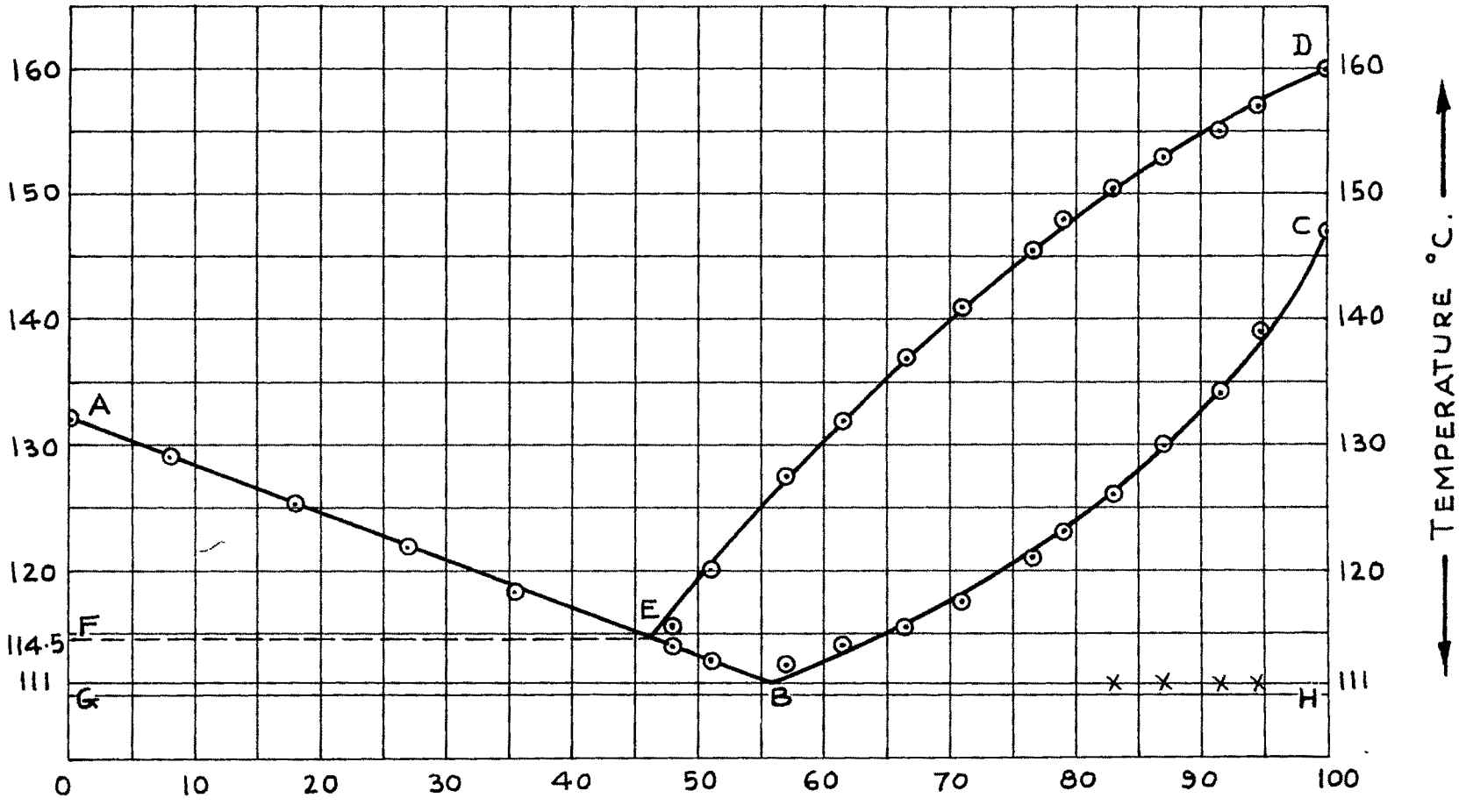

160
150
140
130
120
114·5
111
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-BUTOXYBENZOIC ACID
p-n-BUTOXYBENZOIC ACID: p-NITROBENZAL-p-CHLOROANILINE

FIG. 72

Table 71

p-n-Butoxybenzoic acid : p-Nitrobenzal-p-chloroaniline

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
94.52	94.71	139.0	157.0
90.51	91.85	134.2	155.0
84.86	87.28	130.0	153.0
79.87	83.16	126.0	150.5
75.65	79.87	123.0	148.2
70.89	76.54	121.0	145.6
64.36	71.17	117.5	141.0
62.79	66.68	116.0	137.0
60.74	61.76	114.0	132.0
50.24	57.27	112.5	127.5
46.58	51.34	112.8	120.0
40.76	47.90	114.0	115.5
29.66	35.82	118.0	-
22.01	27.01	121.5	-
12.64	18.21	125.0	-
4.25	8.05	129.0	-
00.00	00.00	132.0	-

Sintering Point = 111.0°C.

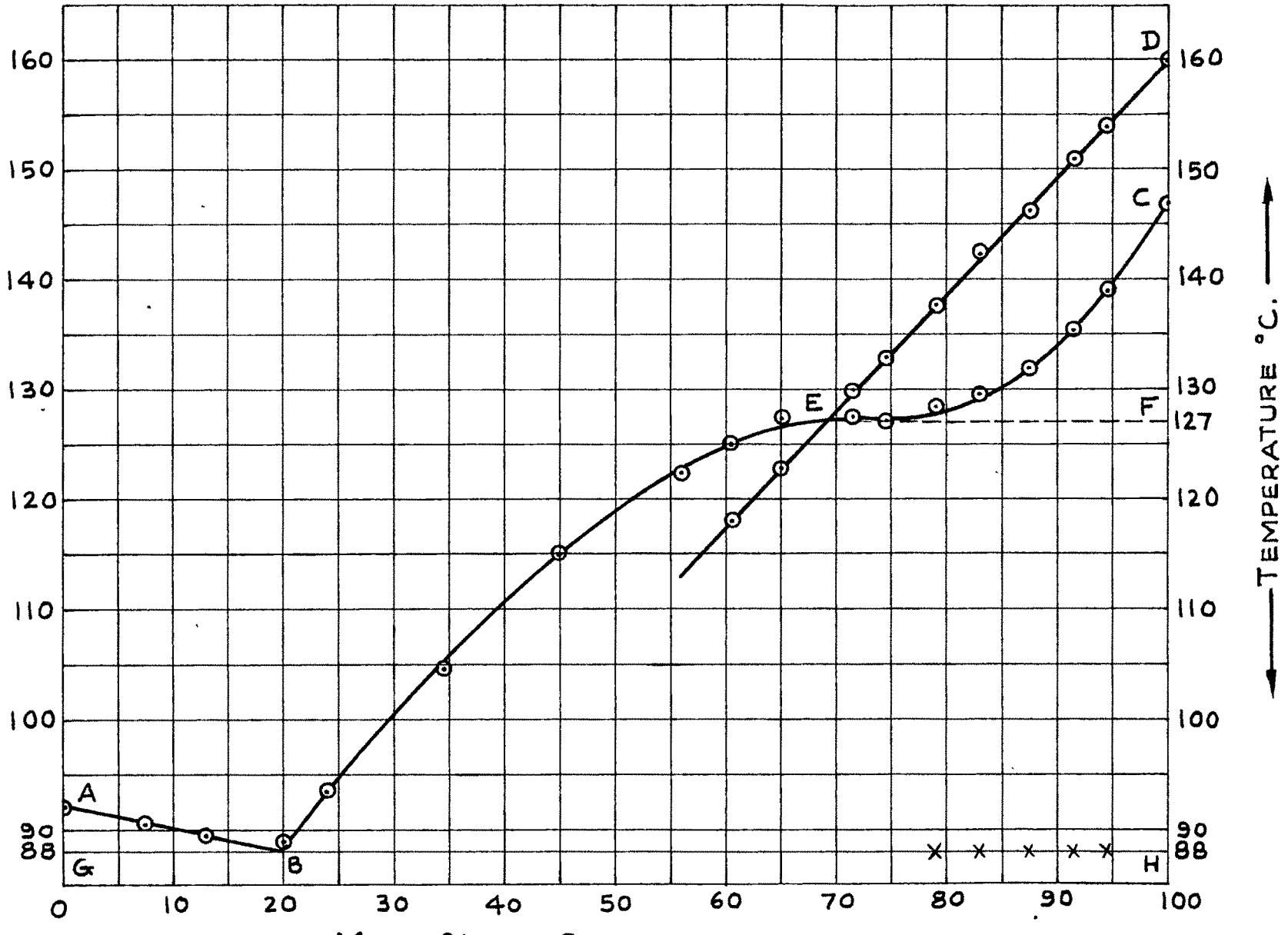

160
150
140
130
120
110
100
90
88
0
10
20
30
40
50
60
70
80
90
100
A
B
C
D
E
F
G
H
127
TEMPERATURE °C.
MOLE % p-n-BUTOXYBENZOIC ACID
p-n-BUTOXYBENZOIC ACID : p-ANISAL-p-CHLOROANILINE

FIG. 73

Table 72

p-n-Butoxybenzoic acid : p-Anisal-p-chloroaniline

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
95.17	94.88	139.0	154.2
90.55	91.85	135.5	151.0
85.94	87.48	132.0	146.5
80.74	83.30	129.5	142.6
75.30	79.23	128.6	138.0
70.34	74.54	127.0	133.0
64.82	71.78	128.0	130.0
59.81	65.42	127.5	(123.0)
54.87	61.22	125.5	(118.0)
50.20	55.95	122.5	-
39.46	45.40	115.0	-
28.88	34.65	104.8	-
20.20	24.13	93.5	-
10.50	20.32	89.0	-
9.46	13.14	89.5	-
4.48	7.56	90.5	-
00.00	00.00	92.0	-

Sintering Point = 88.0°C.

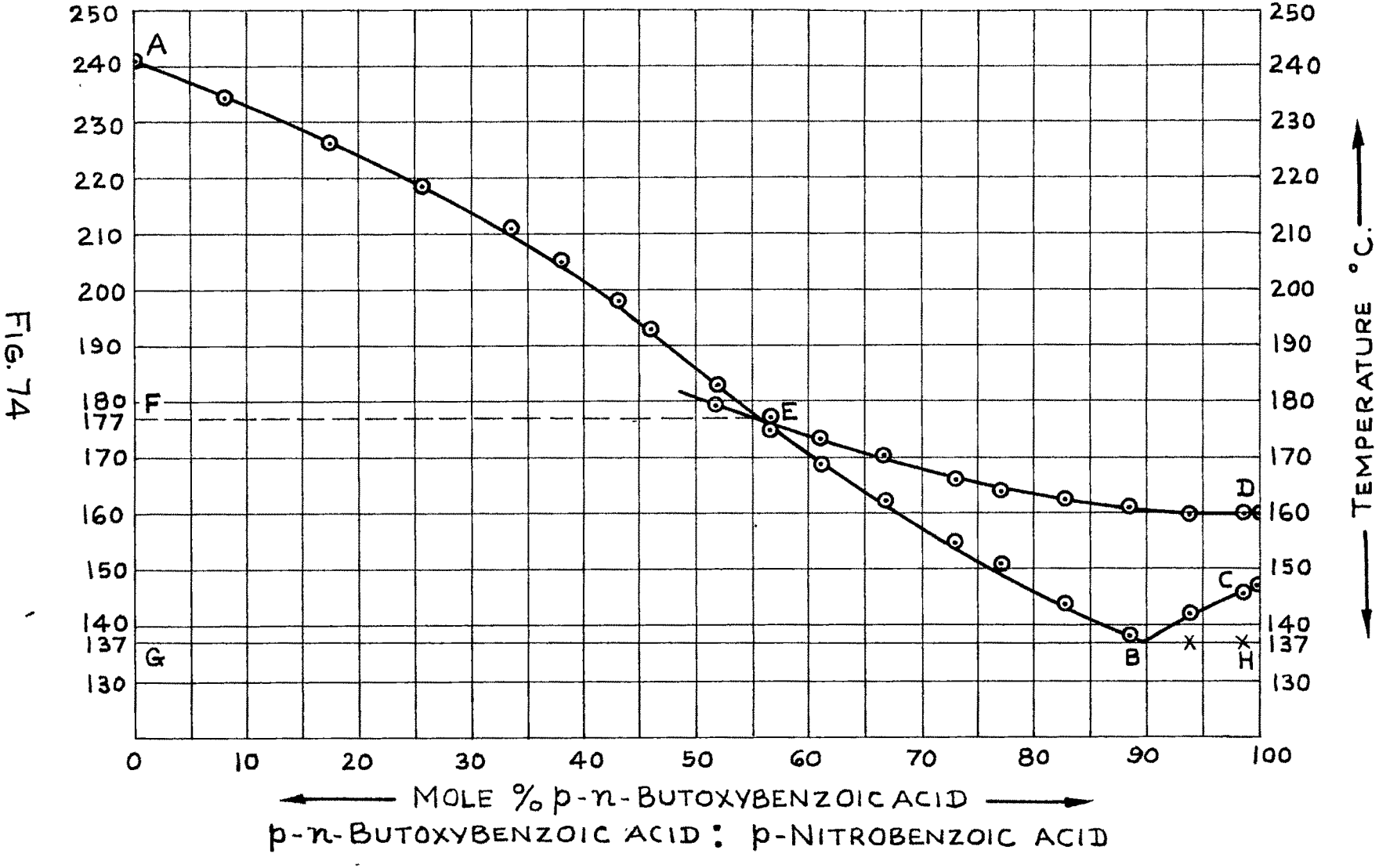

250
240
230
220
210
200
190
180
177
170
160
150
140
137
130
A
F
G
E
D
C
B
H
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-n-BUTOXYBENZOIC ACID
p-n-BUTOXYBENZOIC ACID : p-NITROBENZOIC ACID
TEMPERATURE °C.

Fig. 74

Table 73

p-n-Butoxybenzoic acid and p-Nitrobenzoic acid

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
99.24	98.56	145.5	160.0
95.21	93.83	142.0	159.8
90.76	88.57	138.0	160.5
85.90	82.75	144.0	162.5
80.09	77.36	151.0	164.2
76.43	73.28	155.0	166.0
70.00	66.85	162.5	170.5
65.15	61.37	169.0	173.5
60.01	56.45	175.0	177.0
54.50	51.88	182.5	(179.0)
50.09	46.14	193.0	-
49.10	43.17	198.0	-
45.10	38.07	205.0	-
40.60	33.61	211.0	-
31.39	25.83	218.5	-
21.70	17.60	226.0	-
10.58	8.18	234.0	-
00.00	00.00	241.0	-

Sintering Point = 137.0°C.

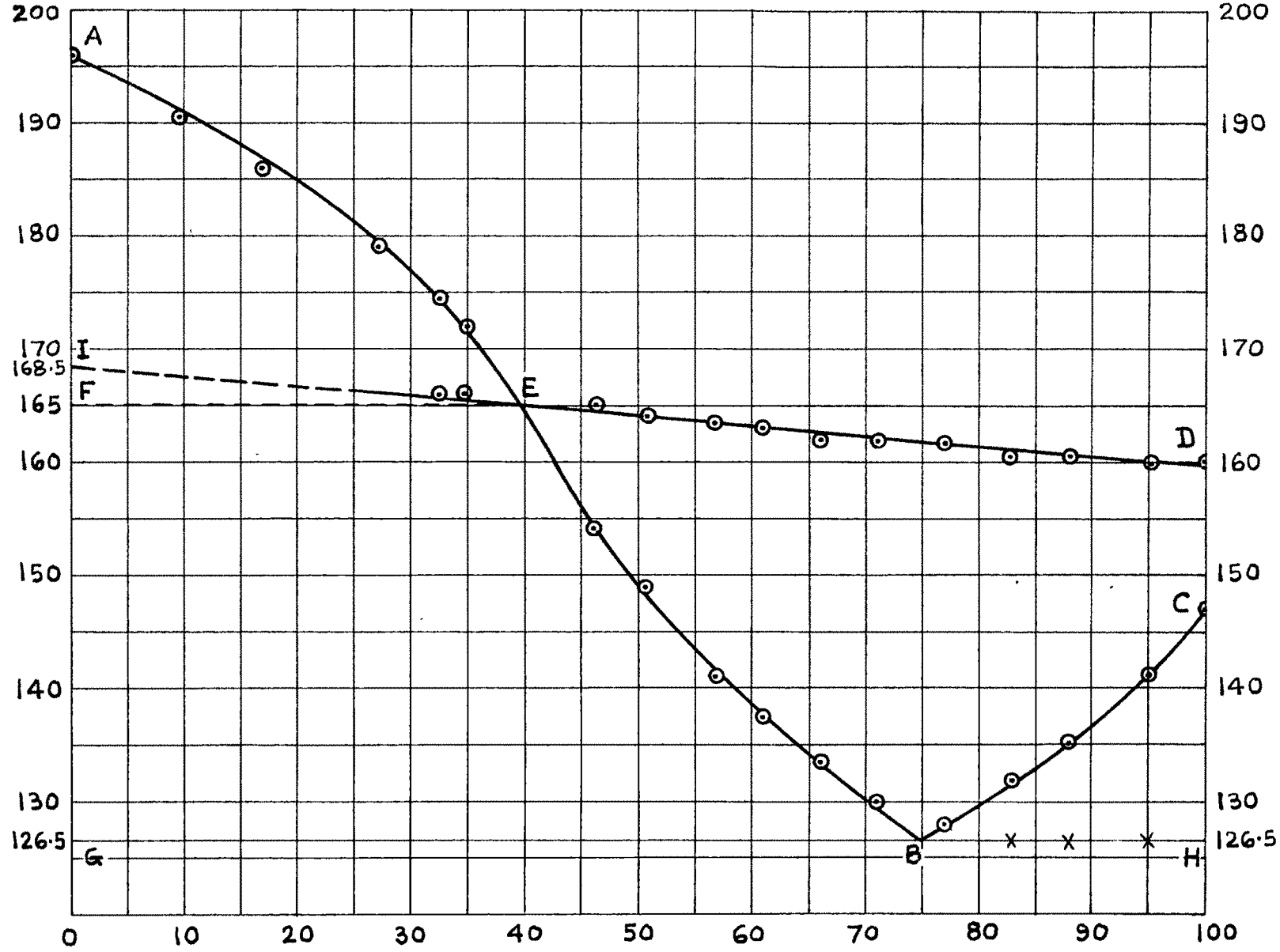

200
190
180
170
168·5
165
160
150
140
130
126·5
A
I
F
E
D
C
B
G
H
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-n-BUTOXYBENZOIC ACID
TEMPERATURE °C.
p-n-BUTOXYBENZOIC ACID : p-ETHOXYBENZOIC ACID

FIG. 75

Table 74

p-n-Butoxybenzoic acid : p-Ethoxybenzoic acid

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in ^{o}C	T.P. in ^{o}C
100.00	100.00	147.0	160.0
96.82	95.04	141.2	159.8
89.80	88.14	135.0	160.4
84.41	82.85	132.0	160.5
79.90	77.38	128.0	161.6
74.50	71.20	130.0	161.8
69.16	66.27	133.5	162.0
64.66	61.01	137.5	163.0
59.65	56.82	141.0	163.5
55.00	50.71	149.0	164.2
50.09	46.37	154.0	165.0
40.35	34.78	172.0	(166.0)
35.30	32.57	174.5	(166.2)
30.10	26.99	179.0	-
19.31	16.89	186.0	-
11.00	9.61	190.5	-
00.00	00.00	196.0	-

Sintering Point = 126.5^{o}C.

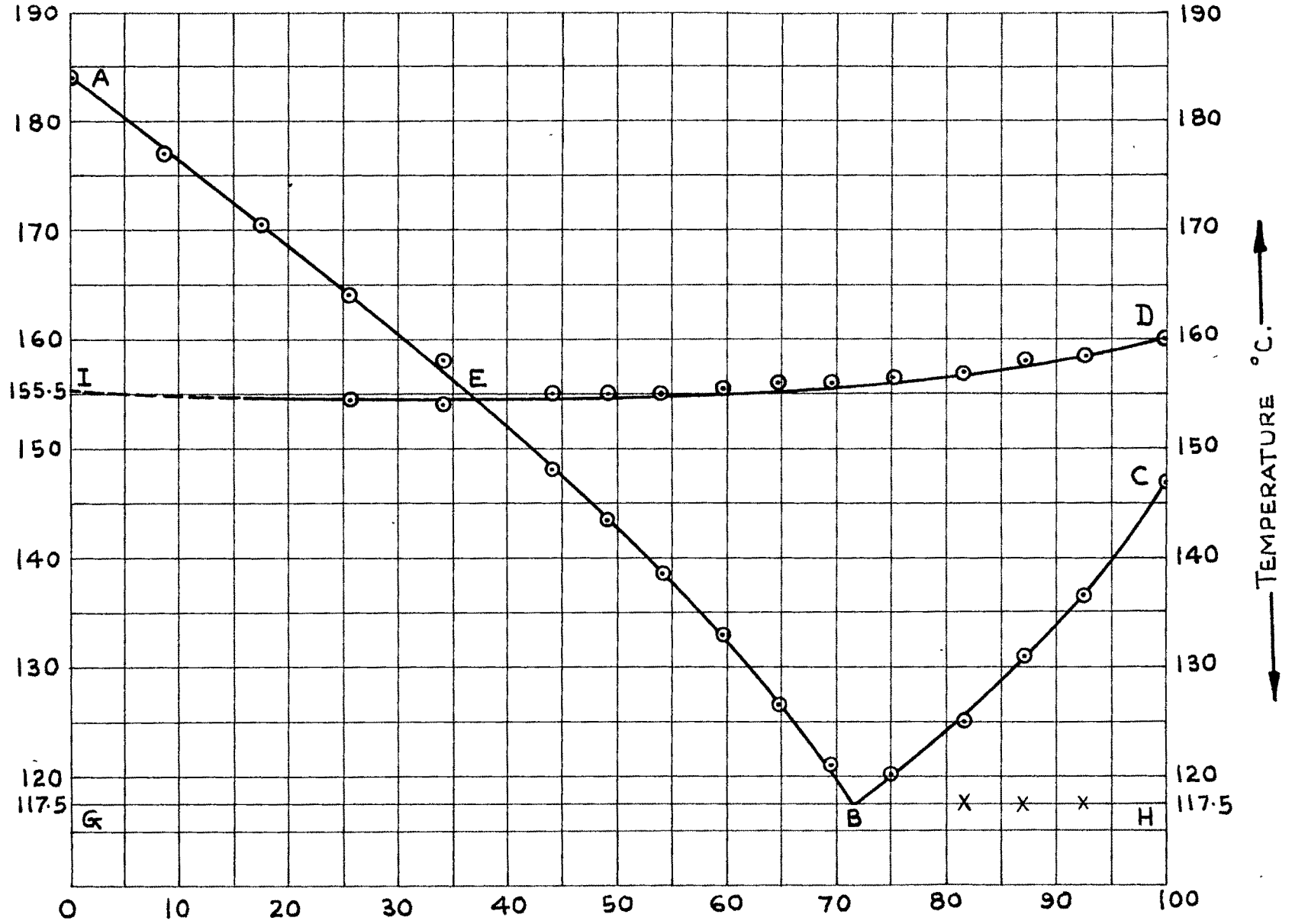

190
180
170
160
155·5
150
140
130
120
117·5
A
E
I
D
C
B
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-BUTOXYBENZOIC ACID
p-n-BUTOXYBENZOIC ACID : p-METHOXYBENZOIC ACID

FIG. 76

Table 75

p-n-Butoxybenzoic acid : p-Methoxybenzoic acid

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
96.16	92.66	136.5	158.4
90.40	87.16	131.0	158.0
85.43	81.58	125.0	157.2
79.41	74.96	120.0	156.8
75.11	69.60	121.0	156.2
70.39	64.71	126.2	156.0
64.91	59.51	132.8	155.5
59.41	54.25	138.5	155.2
55.50	49.14	143.5	155.2
49.80	43.92	148.0	155.0
39.76	34.39	158.0	(154.0)
30.45	25.60	164.0	(154.5)
21.67	17.53	170.5	-
10.74	8.49	176.8	-
00.00	00.00	184.0	-

Sintering Point = 117.5°C.

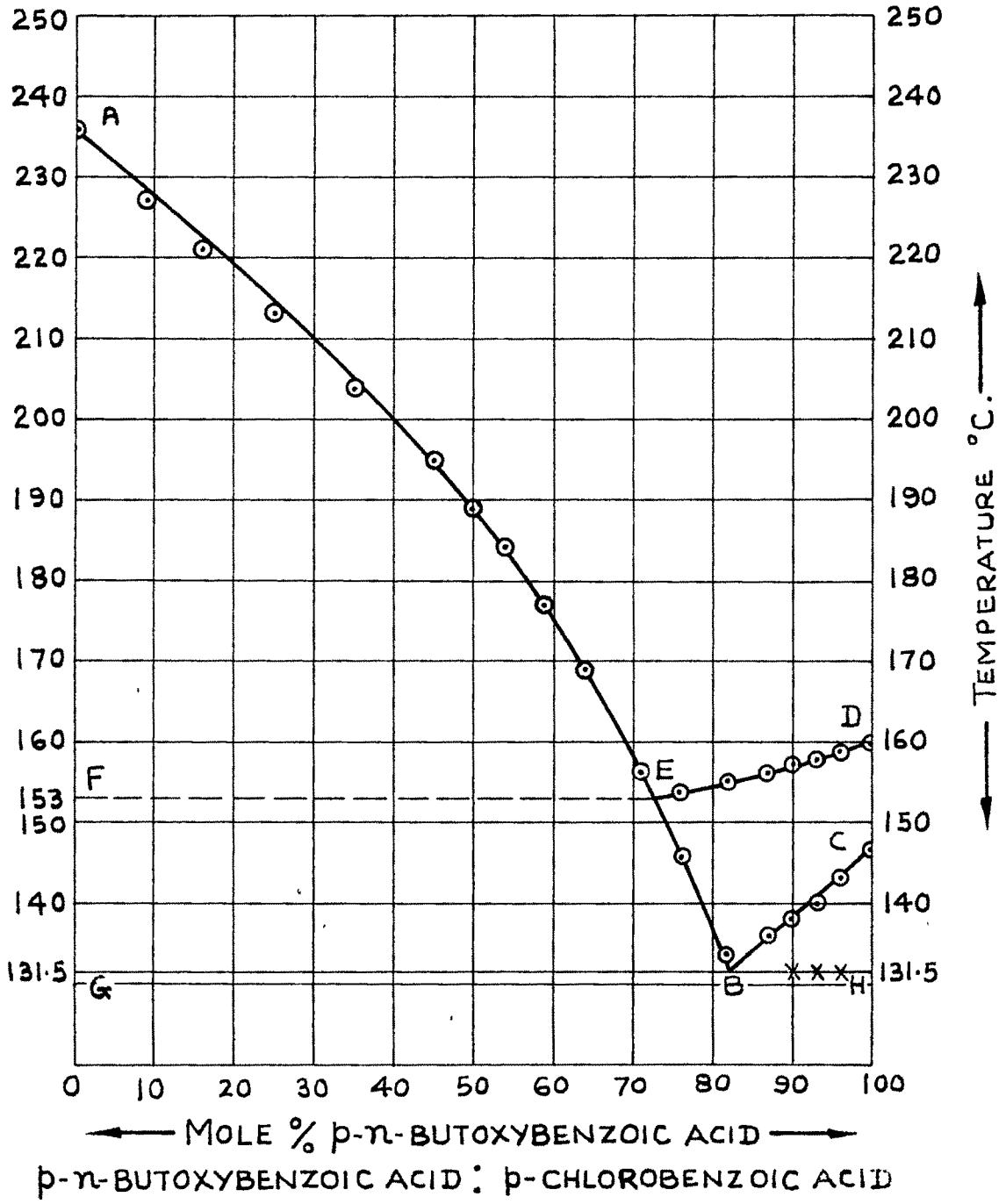

250
240
230
220
210
200
190
180
170
160
153
150
140
131·5
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-BUTOXYBENZOIC ACID
p-n-BUTOXYBENZOIC ACID : p-CHLOROBENZOIC ACID

FIG. 77

Table 76

p-n-Butoxybenzoic acid : p-Chlorobenzoic acid

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
98.46	96.56	143.5	159.0
95.66	93.46	139.8	158.0
92.46	90.08	138.0	157.5
90.05	87.56	136.0	156.5
85.51	82.79	133.5	155.5
80.00	76.60	146.0	154.2
75.70	71.14	156.5	-
69.42	64.52	169.0	-
64.66	59.33	177.0	-
61.05	54.93	183.5	-
55.44	50.05	189.0	-
50.51	44.92	195.0	-
40.05	35.52	203.5	-
29.41	25.33	213.0	-
19.60	16.93	221.0	-
11.60	9.51	227.0	-
00.00	00.00	236.0	-

Sintering Point = 131.5°C.

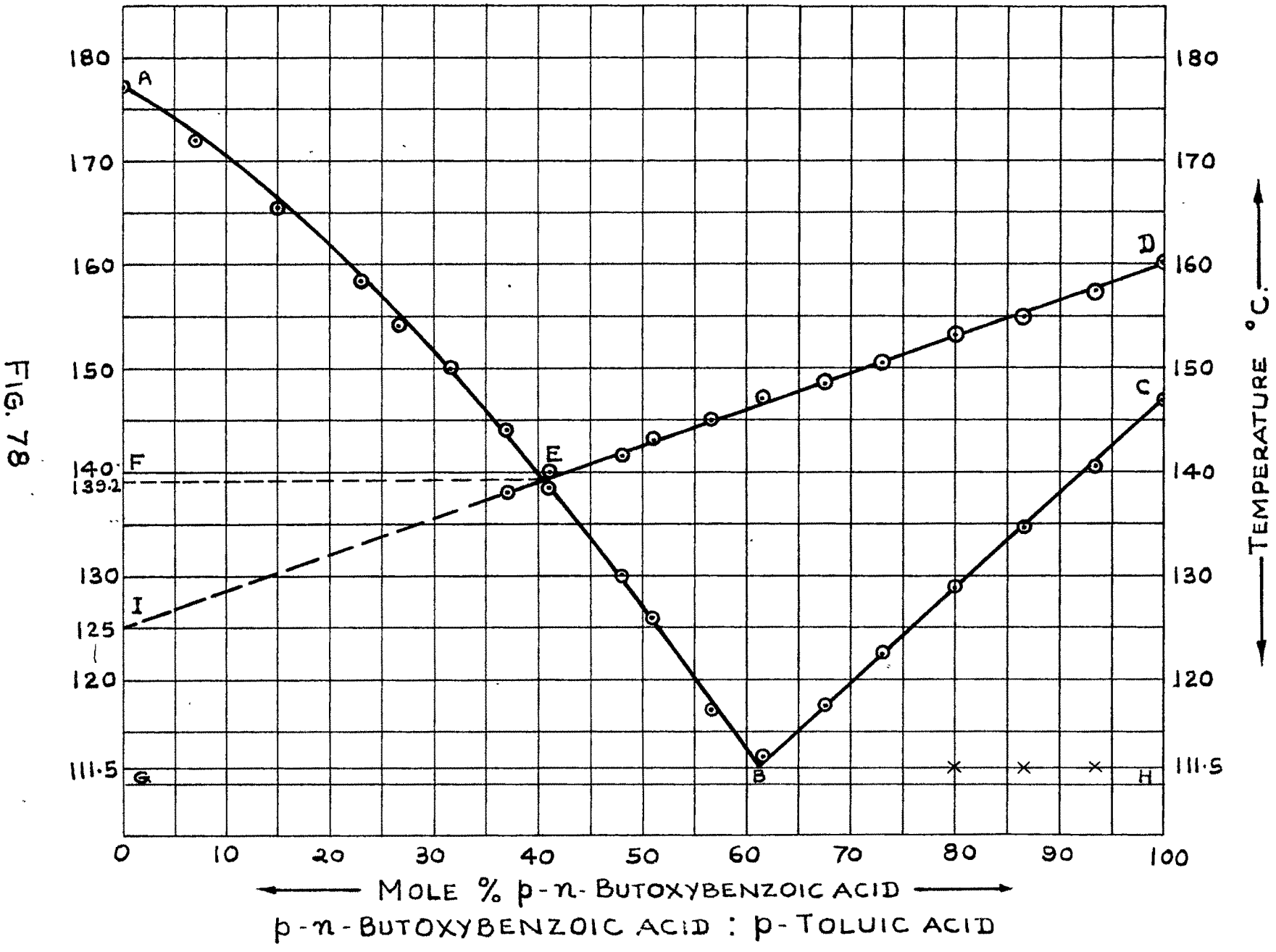

180
170
160
150
140
139.2
130
125
120
111.5
A
B
C
D
E
F
G
H
I
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
← MOLE % p-n-BUTOXYBENZOIC ACID →
p-n-BUTOXYBENZOIC ACID : p-TOLUIC ACID

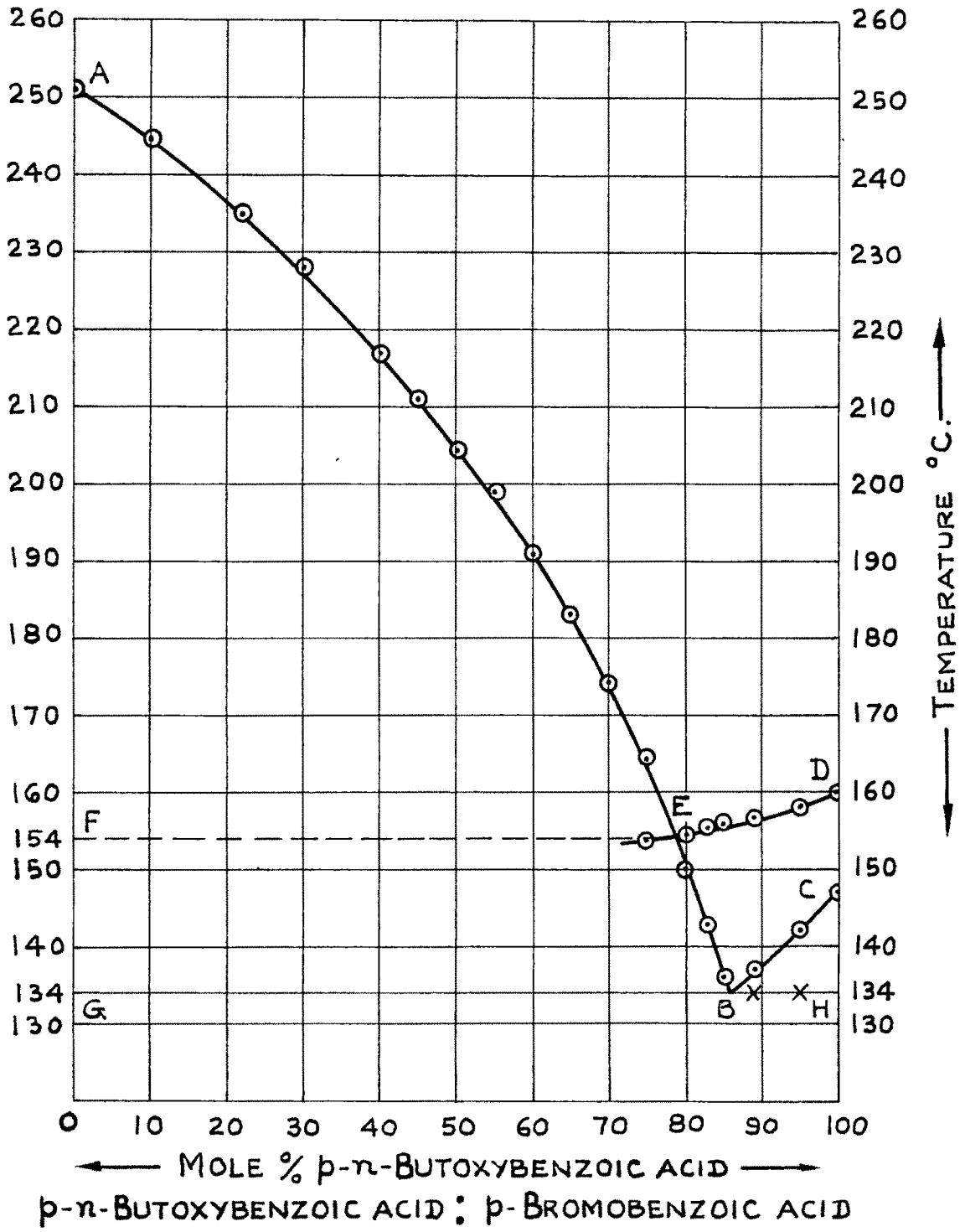
FIG. 78

Table 77

p-n-Butoxybenzoic acid : p-Toluic acid

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
94.71	93.89	140.5	157.6
89.73	86.60	134.5	155.0
84.92	80.46	128.5	153.0
80.15	73.08	122.5	150.5
74.50	67.48	117.5	148.5
69.55	61.58	112.5	147.0
66.01	56.57	117.0	145.0
61.31	51.46	126.0	143.0
55.54	47.95	130.0	141.5
50.39	41.19	138.5	140.0
45.85	37.08	144.0	(138.0)
39.66	31.76	150.0	-
34.26	26.82	154.0	-
30.20	23.36	158.2	-
20.30	15.30	165.5	-
9.70	6.99	172.0	-
00.00	00.00	177.0	-

Sintering Point = 111.5°C.


260
250
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230
220
210
200
190
180
170
160
154
150
140
134
130
A
B
C
D
E
F
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-BUTOXYBENZOIC ACID
p-n-BUTOXYBENZOIC ACID : p-BROMOBENZOIC ACID

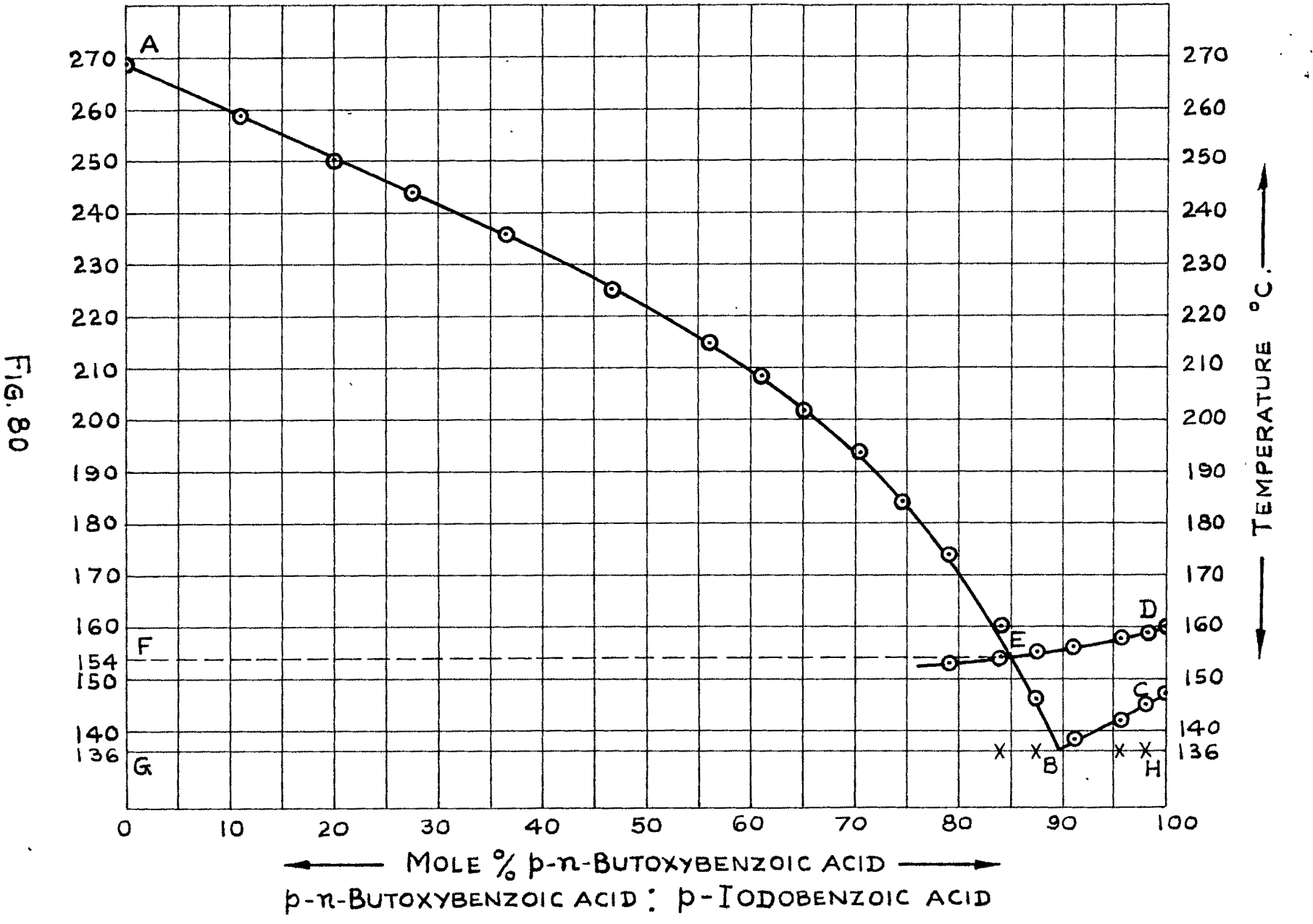
FIG. 79

Table 78

p-n-Butoxybenzoic acid : p-Bromobenzoic acid

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
95.54	94.93	142.0	158.0
90.51	89.82	137.0	157.0
86.30	85.80	136.0	156.0
84.68	83.42	143.0	155.5
81.25	80.44	150.0	154.8
75.06	75.43	164.5	(153.8)
70.20	70.87	174.0	-
64.55	65.89	183.0	-
59.85	60.92	191.0	-
54.61	55.64	199.0	-
50.39	50.86	204.0	-
45.98	45.72	210.6	-
39.70	40.33	217.4	-
29.35	30.47	228.0	-
21.60	22.40	235.0	-
9.80	10.02	244.5	-
00.00	00.00	251.0	-

Sintering Point = 134.0°C.


A
B
C
D
E
F
G
H
270
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250
240
230
220
210
200
190
180
170
160
154
150
140
136
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-BUTOXYBENZOIC ACID
p-n-BUTOXYBENZOIC ACID : p-IODOBENZOIC ACID

Fig. 80

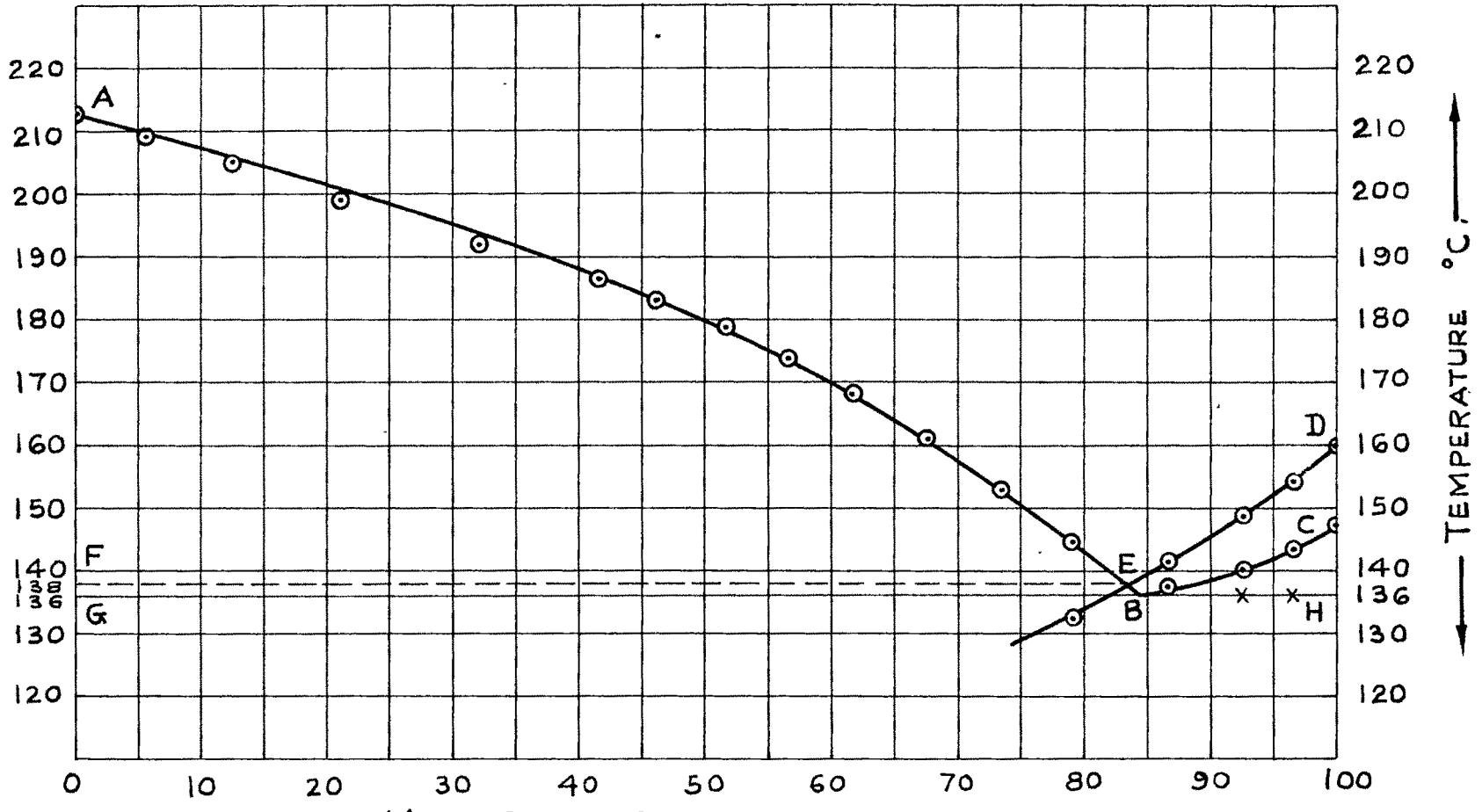
220
210
200
190
180
170
160
150
140
138
136
130
120
A
F
G
B
C
D
E
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-BUTOXYBENZOIC ACID
p-BUTOXYBENZOIC ACID : p-HYDROXYBENZOIC ACID

FIG. 81

Table '79

p-n-Butoxybenzoic acid : p-Iodobenzoic acid

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
99.04	98.12	145.0	159.0
97.29	95.63	142.0	157.5
90.80	91.75	138.0	156.2
85.43	87.60	146.0	155.0
80.39	84.05	160.0	(154.0)
74.76	79.21	174.0	(153.0)
69.76	74.80	184.0	-
64.36	70.55	193.5	-
59.70	65.15	201.5	-
55.69	61.20	208.5	-
50.34	56.35	215.0	-
40.51	46.50	225.2	-
31.71	36.84	236.0	-
22.46	27.62	244.0	-
15.62	20.10	250.0	-
8.42	11.28	259.0	-
00.00	00.00	269.0	-

Sintering Point = 136.0°C.

Table 80

p-n-Butoxybenzoic acid : p-Hydroxybenzoic acid

% of p-n-Butoxy-benzoic acid	Mole % of p-n-Butoxy-benzoic acid	M.P. in °C	T.P. in °C
100.00	100.00	147.0	160.0
98.14	96.52	143.0	154.0
95.21	92.64	140.0	148.9
90.65	86.54	137.4	141.0
84.31	79.23	144.5	(132.0)
80.2 4	73.57	153.5	-
74.82	67.48	161.0	-
69.36	61.67	168.2	-
64.76	56.54	173.5	-
60.64	51.66	179.0	-
55.20	46.33	183.0	-
50.55	41.54	186.0	-
40.25	32.05	192.2	-
27.05	21.05	198.5	-
18.45	12.24	205.0	-
10.82	5.52	209.0	-
00.00	00.00	213.0	-

Sintering Point = 136.0°C.

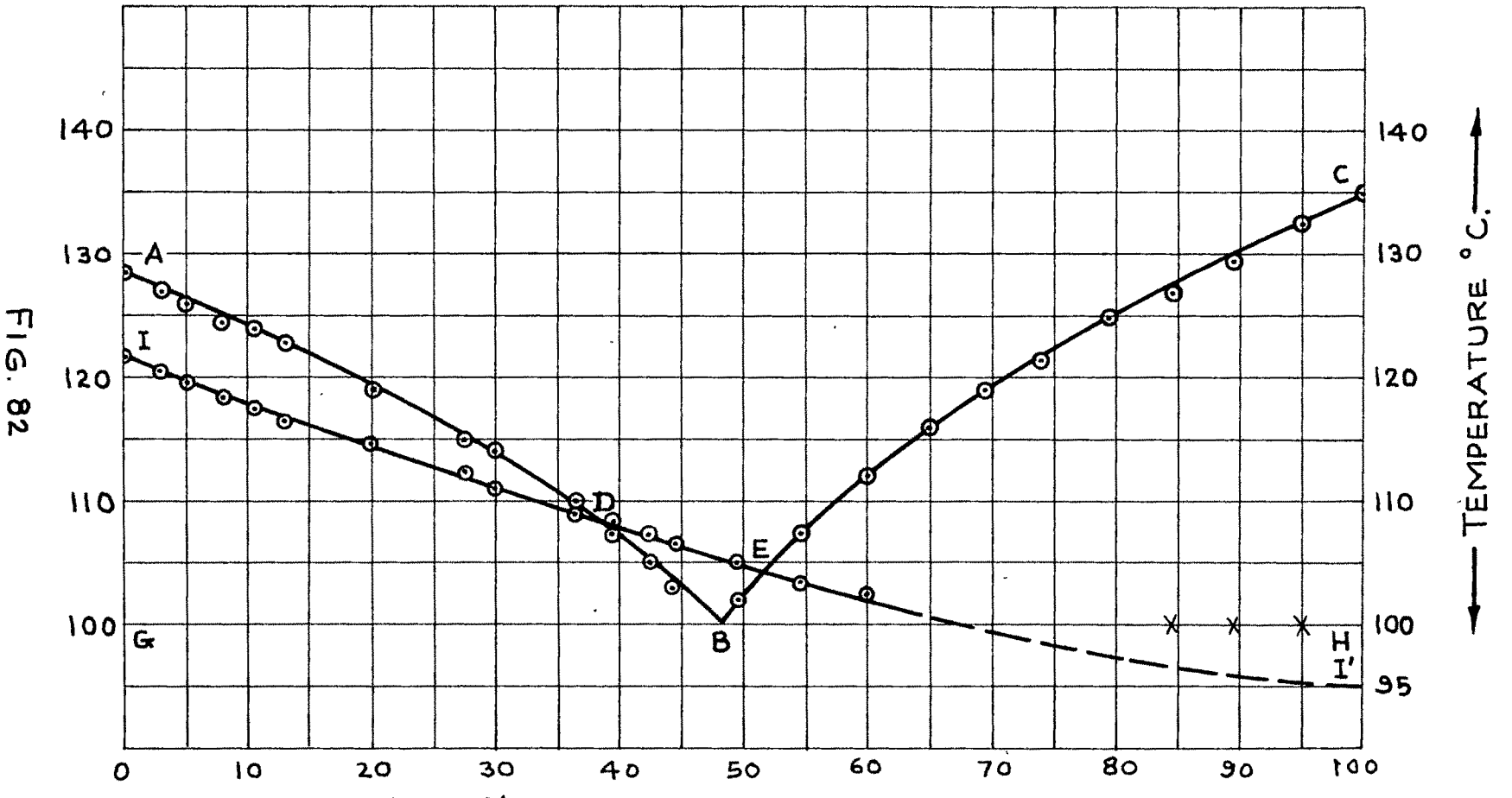
140
130
120
110
100
A
I
D
E
B
C
G
H
I'
95
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-NITROBENZAL-p-ANISIDINE
p-NITROBENZAL-p-ANISIDINE: p-ANISAL-p-PHENETIDINE.

FIG. 82

Table 81

p-Nitrobenzal-p-anisidine : p-Anisal-p-phenetidine

% of p-Nitrobenzal-p-anisidine	Mole % of p-Nitrobenzal-p-anisidine	M.P. in °C	T.P. in °C
100.00	100.00	135.0	-
95.17	95.37	132.5	-
90.12	89.86	129.5	-
84.50	84.67	127.0	-
80.60	79.75	125.0	-
75.39	74.46	121.5	-
70.55	69.61	119.0	-
65.34	65.03	116.0	-
59.65	60.12	112.0	(102.5)
54.50	54.95	107.5	(103.5)
50.05	49.95	102.0	105.0
44.66	44.95	103.0	106.5
42.24	42.54	105.0	107.4
39.70	39.90	107.0	108.5
36.52	36.60	110.0	(109.0)
30.35	30.00	114.0	(111.0)
27.80	27.42	115.0	(112.5)
20.40	20.32	118.8	(114.5)
13.05	12.93	122.8	(116.5)
10.40	10.31	123.8	(117.4)
8.04	7.92	124.5	(118.6)
5.40	5.34	126.0	(119.5)
2.95	2.93	127.2	(120.5)
00.00	00.00	128.5	(121.5)

Sintering Point = 100.0°C.

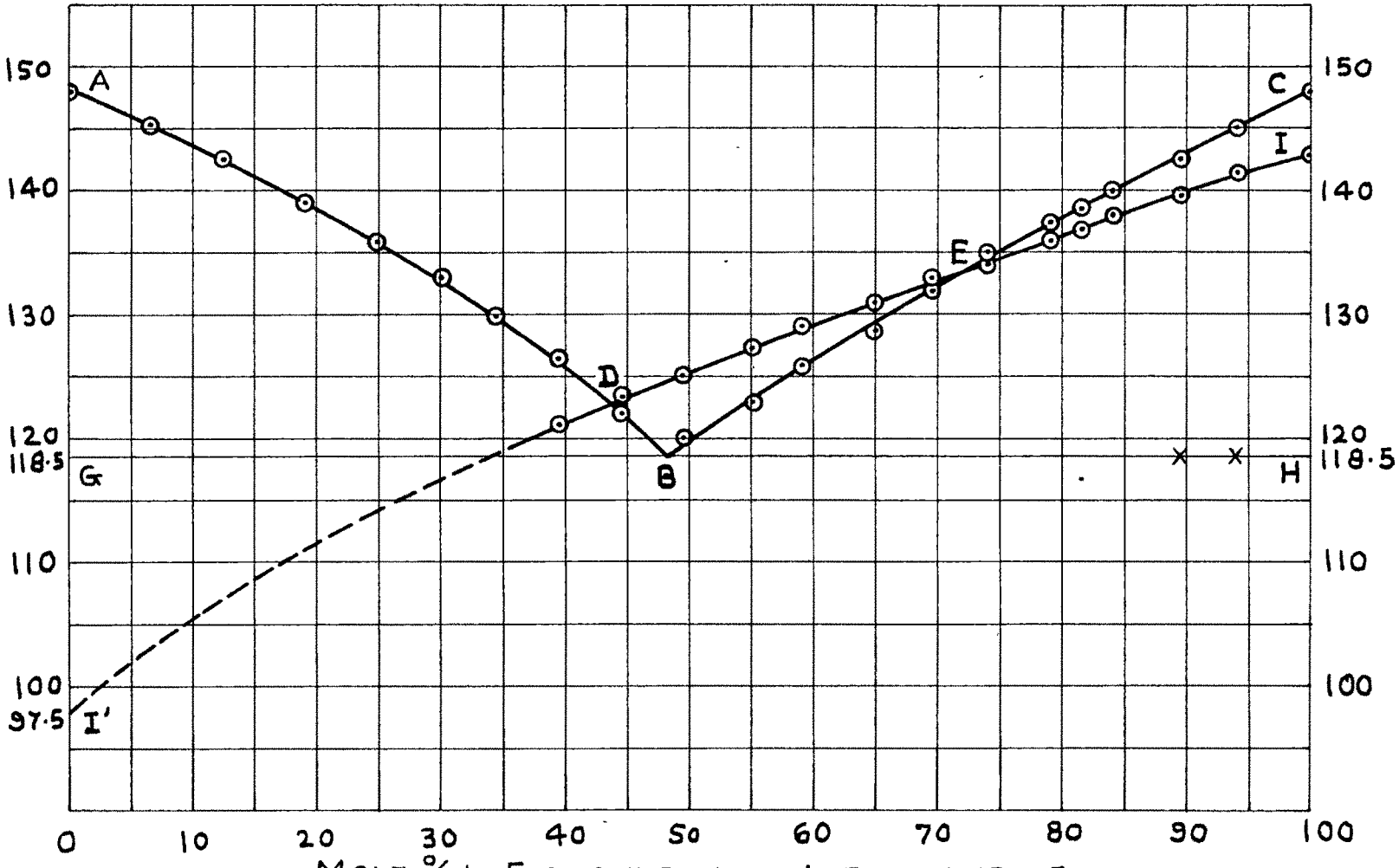
150
140
130
120
118·5
110
100
97·5
A
C
I
E
D
B
G
H
I'
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ETHOXYBENZAL-p-PHENETIDINE
p-ETHOXYBENZAL-p-PHENETIDINE : p-DIMETHYLAMINOBENZAL-p-PHENETIDINE

FIG. 83

Table 82

p-Ethoxybenzal-p-phenetidine : p-Dimethylaminobenzal-p-phenetidine

% of p-Ethoxybenzal-p-phenetidine	Mole % of p-Ethoxybenzal-p-phenetidine	M.P. in °C	T.P. in °C
100.00	100.00	(148.0)	(143.0)
94.82	94.41	145.0	(141.5)
89.97	89.71	142.5	(139.6)
84.96	84.24	140.0	(138.0)
81.86	81.54	138.5	(137.0)
79.91	79.34	137.5	(136.0)
74.91	74.06	135.2	(134.2)
69.61	69.87	132.0	133.0
65.15	65.40	128.5	131.0
60.01	59.32	126.0	129.0
56.19	55.35	123.0	127.0
50.15	49.87	120.0	125.0
44.90	44.74	122.0	123.0
40.11	39.86	126.5	(121.0)
34.80	34.81	130.2	-
30.26	30.18	133.0	-
25.55	25.27	136.0	-
19.55	19.36	138.8	-
12.94	12.52	142.5	-
7.20	6.56	145.5	-
00.00	00.00	148.0	-

Sintering Point = 118.5°C.

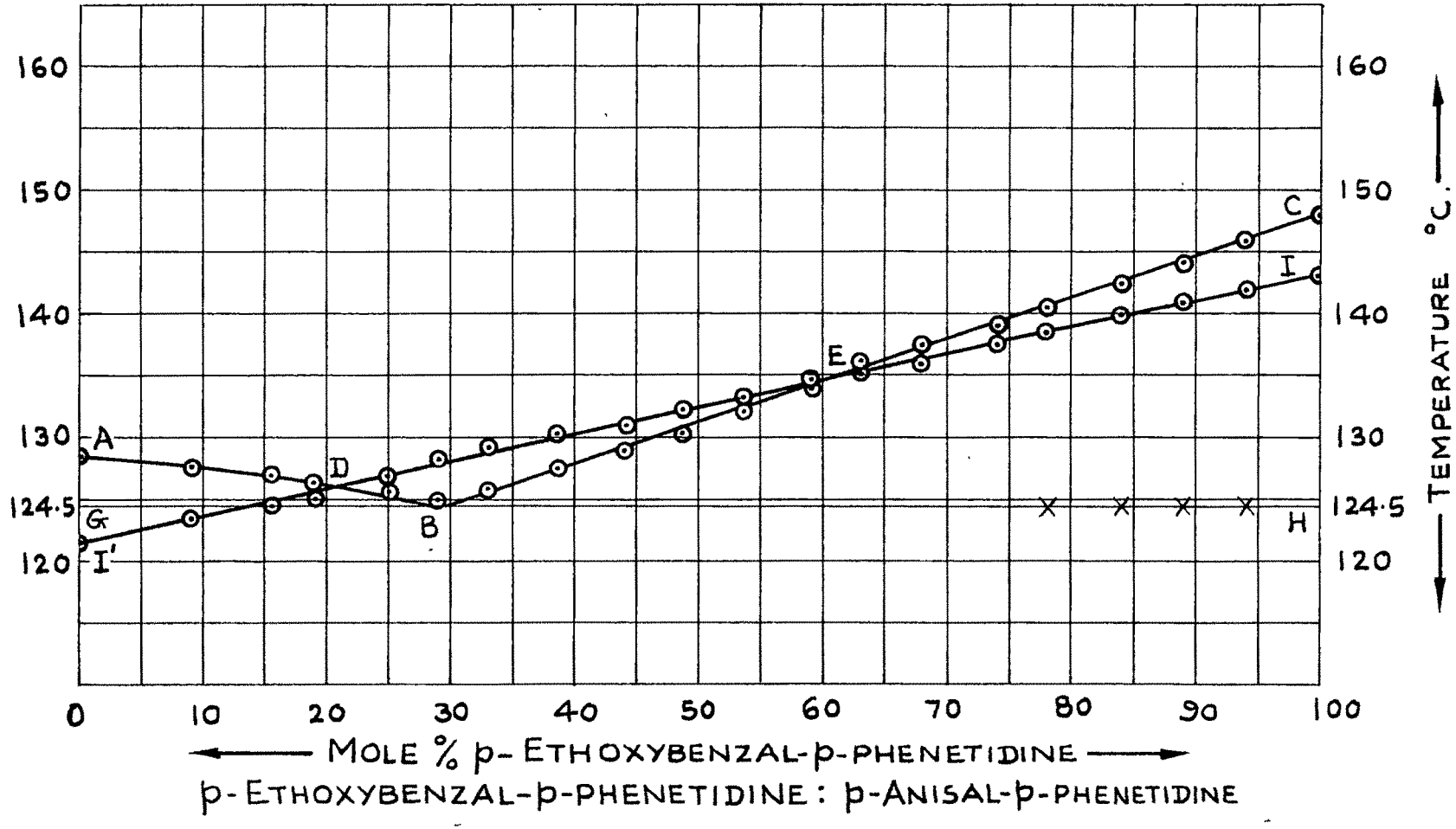
160
150
140
130
124·5
120
A
D
G
I'
B
E
C
I
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ETHOXYBENZAL-p-PHENETIDINE
p-ETHOXYBENZAL-p-PHENETIDINE : p-ANISAL-p-PHENETIDINE

FIG. 84

Table 83

p-Ethoxybenzal-p-phenetidine : p-Anisal-p-phenetidine

% of p-Ethoxybenzal-p-phenetidine	Mole % of p-Ethoxybenzal-p-phenetidine	M.P. in °C	T.P. in °C
100.00	100.00	148.0	(143.0)
96.01	94.26	145.8	(142.0)
90.80	89.37	144.0	(141.0)
85.80	84.43	142.2	(140.0)
80.21	78.14	140.5	(138.5)
75.67	74.06	139.2	(137.5)
69.71	68.17	137.8	(136.2)
65.10	63.12	136.0	(135.0)
60.80	59.29	134.5	(134.0)
56.01	53.68	131.8	133.0
50.30	48.77	130.5	132.0
45.69	44.35	129.0	131.0
40.40	38.85	127.5	130.0
34.80	33.22	126.5	129.0
30.90	29.36	125.0	128.0
25.85	25.01	125.5	126.5
20.55	19.40	126.0	(125.2)
16.65	15.65	127.0	(124.5)
9.85	9.27	127.5	(123.2)
00.00	00.00	128.5	(121.5)

Sintering Point = 124.5°C.

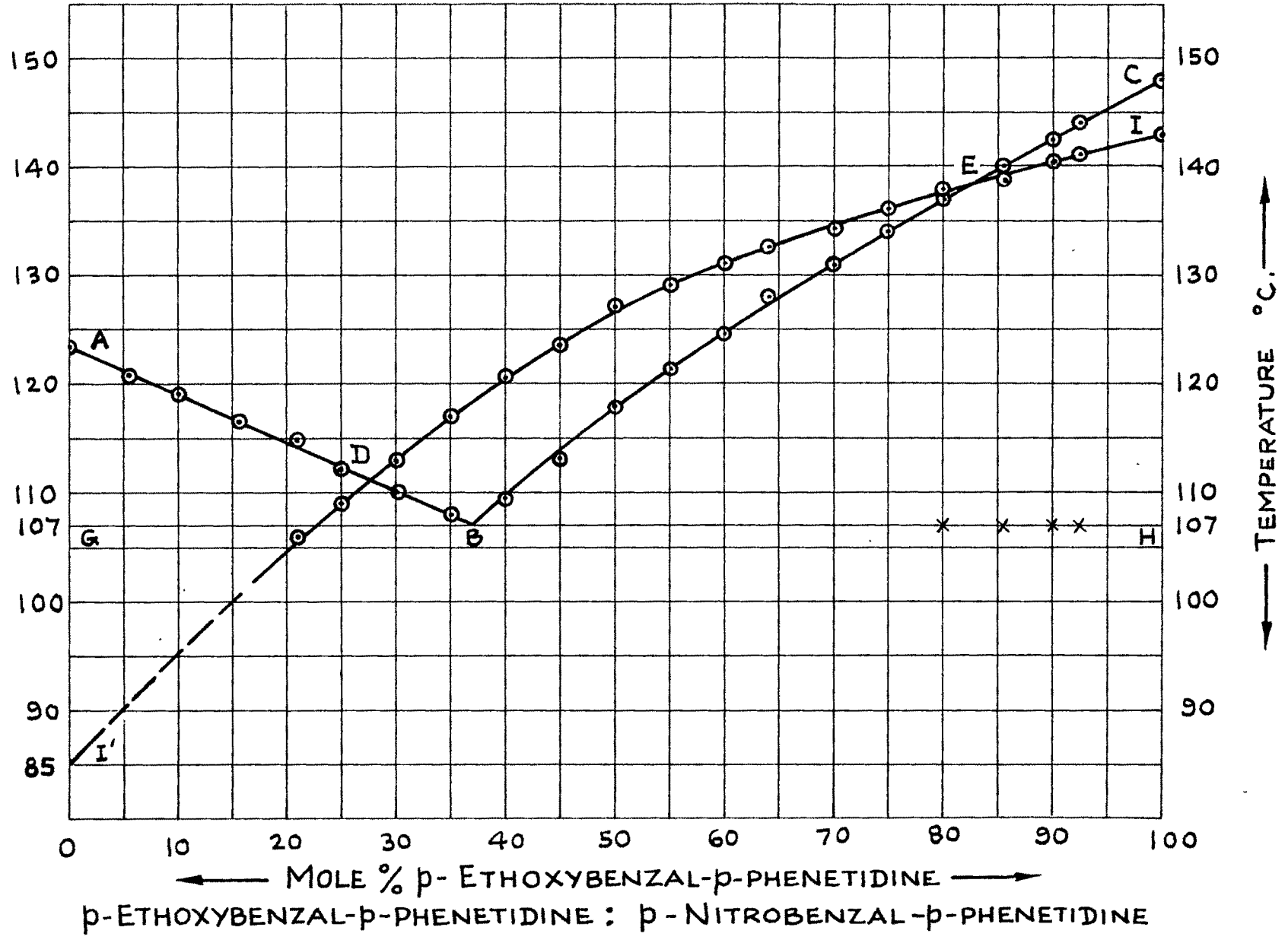
150
140
130
120
110
107
100
90
85
A
B
C
D
E
G
H
I
I'
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ETHOXYBENZAL-p-PHENETIDINE
p-ETHOXYBENZAL-p-PHENETIDINE : p-NITROBENZAL-p-PHENETIDINE

FIG. 85

Table 84

p-Ethoxybenzal-p-phenetidine : p-Nitrobenzal-p-phenetidine

% of p-Ethoxybenzal-p-phenetidine	Mole % of p-Ethoxybenzal-p-phenetidine	M.P. in °C	T.P. in °C
100.00	100.00	148.0	(143.0)
92.48	92.92	144.0	(141.0)
89.52	89.97	142.0	(140.0)
84.41	85.88	140.0	(138.5)
80.09	80.11	137.5	137.5
76.25	75.18	134.0	135.8
70.55	70.20	131.0	134.0
64.82	64.42	128.0	132.5
60.94	60.03	124.5	131.0
55.60	55.11	121.5	129.0
50.39	50.36	118.0	126.8
45.35	44.98	113.0	123.5
40.21	40.14	109.6	120.5
35.60	35.40	108.0	117.2
30.26	30.30	109.5	113.2
25.10	25.15	112.0	(109.0)
20.45	20.57	115.0	(106.0)
15.55	15.52	117.0	-
10.50	10.49	119.0	-
5.80	5.52	121.0	-
00.00	00.00	123.5	-

Sintering Point = 107.0°C.


150
140
130
120
110
104
A
B
C
G
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-NITROBENZAL-p-ANISIDINE
p-NITROBENZAL-p-ANISIDINE : p-NITROBENZAL-p-PHENETIDINE

FIG. 86

Table 85

p-Nitrobenzal-p-anisidine : p-Nitrobenzal-p-phenetidine

% of p-Nitrobenzal-p-anisidine	Mole % of p-Nitrobenzal-p-anisidine	M.P. in °C	T.P. in °C
100.00	100.00	135.0	-
94.93	94.95	132.0	-
90.12	90.33	130.0	-
84.86	85.86	127.8	-
79.87	80.39	125.0	-
74.61	74.80	123.0	-
69.92	71.19	120.5	-
64.92	66.33	117.6	-
60.30	61.52	115.0	-
54.96	56.14	111.2	-
49.85	51.39	108.0	-
44.80	46.26	105.0	-
40.00	41.30	107.0	-
35.35	36.62	109.0	-
31.35	32.06	112.0	-
21.35	21.81	116.0	-
10.45	10.93	120.5	-
00.00	00.00	123.5	-

Sintering Point = 104.0°C.

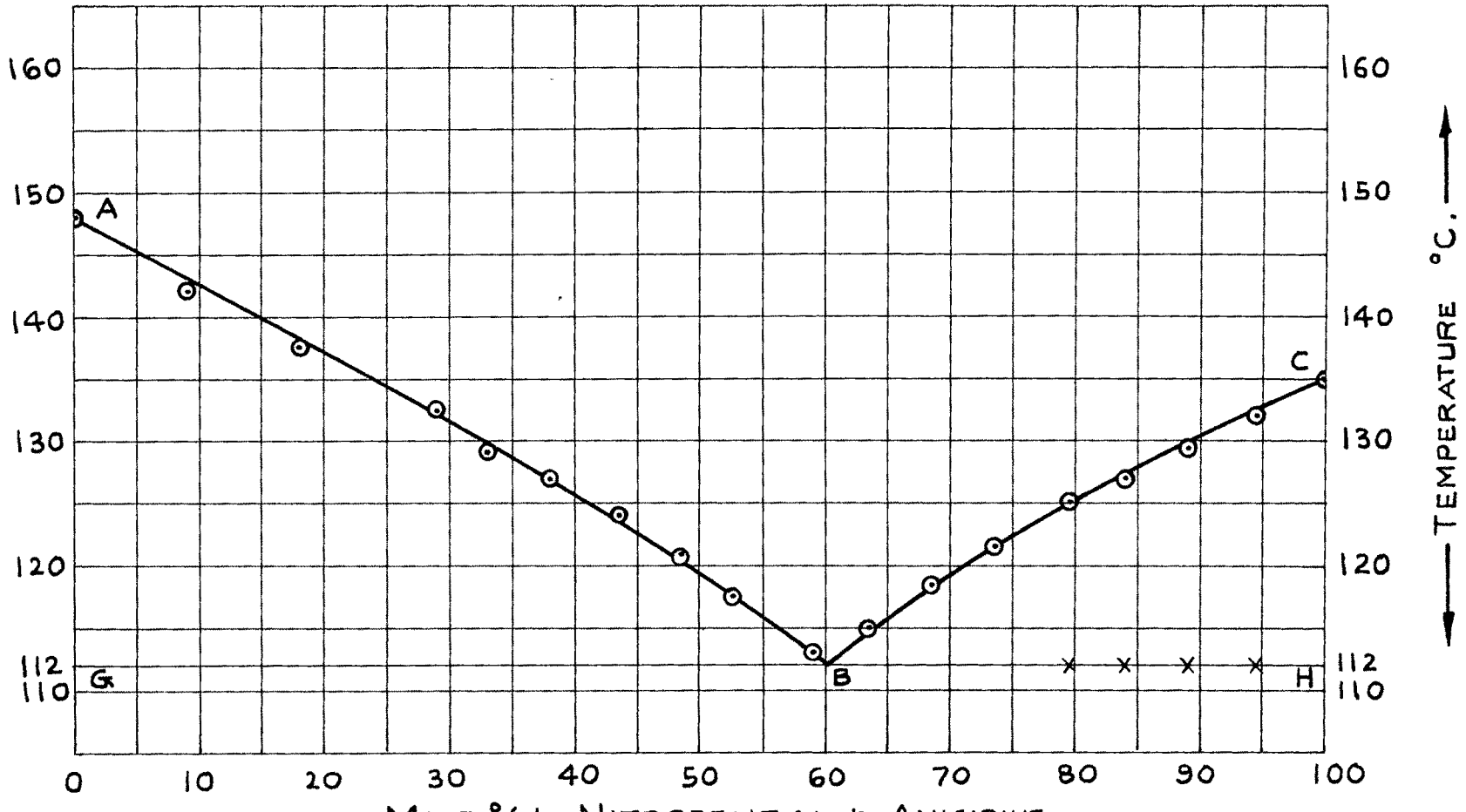
160
150
140
130
120
112
110
A
G
B
C
H
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-NITROBENZAL-p-ANISIDINE
p-NITROBENZAL-p-ANISIDINE : p-ANISAL-p-ANISIDINE

FIG. 87

Table 86

p-Nitrobenzal-p-anisidine : p-Anisal-p-anisidine

% of p-Nitrobenzal-p-anisidine	Mole % of p-Nitrobenzal-p-anisidine	M.P. in °C	T.P. in °C
100.00	100.00	135.0	-
95.47	94.95	132.0	-
89.45	89.45	129.5	-
84.98	84.35	127.0	-
79.47	79.52	125.2	-
75.01	73.91	121.5	-
69.76	68.80	118.5	-
65.28	63.81	115.2	-
61.25	59.26	113.0	-
54.50	52.81	117.5	-
50.20	48.59	121.0	-
44.66	43.61	124.0	-
39.66	38.37	127.0	-
34.70	33.05	129.0	-
30.70	29.37	132.5	-
19.31	18.42	137.2	-
9.60	9.20	142.0	-
00.00	00.00	148.0	-

Sintering Point = 112.0°C.

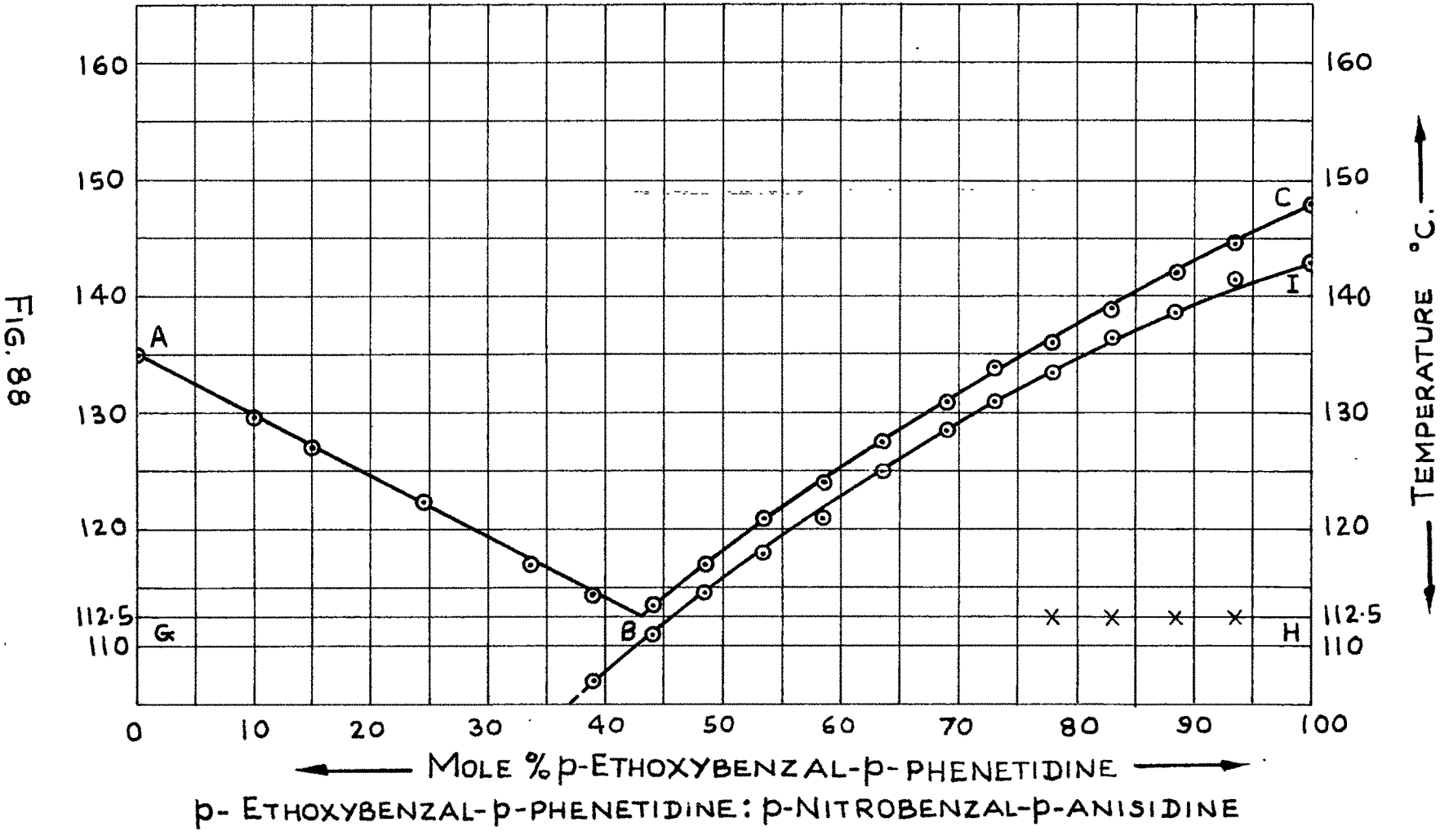
160
150
140
130
120
112·5
110
A
G
B
C
I
H
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-ETHOXYBENZAL-p-PHENETIDINE
TEMPERATURE °C.
p-ETHOXYBENZAL-p-PHENETIDINE: p-NITROBENZAL-p-ANISIDINE

FIG. 88

Table 87

p-Ethoxybenzal-p-phenetidine : p-Nitrobenzal-p-anisidine

% of p-Ethoxybenzal-p-phenetidine	Mole % of p-Ethoxybenzal-p-phenetidine	M.P. in °C	T.P. in °C
100.00	100.00	148.0	(143.0)
95.21	93.74	144.5	(141.5)
90.05	88.72	142.2	(138.5)
84.67	83.22	139.0	(136.5)
80.00	78.43	136.0	(133.5)
76.56	73.07	134.0	(131.0)
70.89	69.07	131.0	(128.0)
65.09	63.66	127.5	(125.0)
60.43	58.66	124.2	(121.0)
55.05	53.66	121.0	(118.0)
49.85	48.61	117.0	(114.5)
45.35	43.97	113.0	(111.0)
40.70	39.06	114.5	(107.0)
35.16	33.94	117.0	-
24.70	24.79	122.5	-
15.90	15.21	127.2	-
10.55	10.13	129.5	-
00.00	00.00	135.0	-

Sintering Point = 112.5°C.

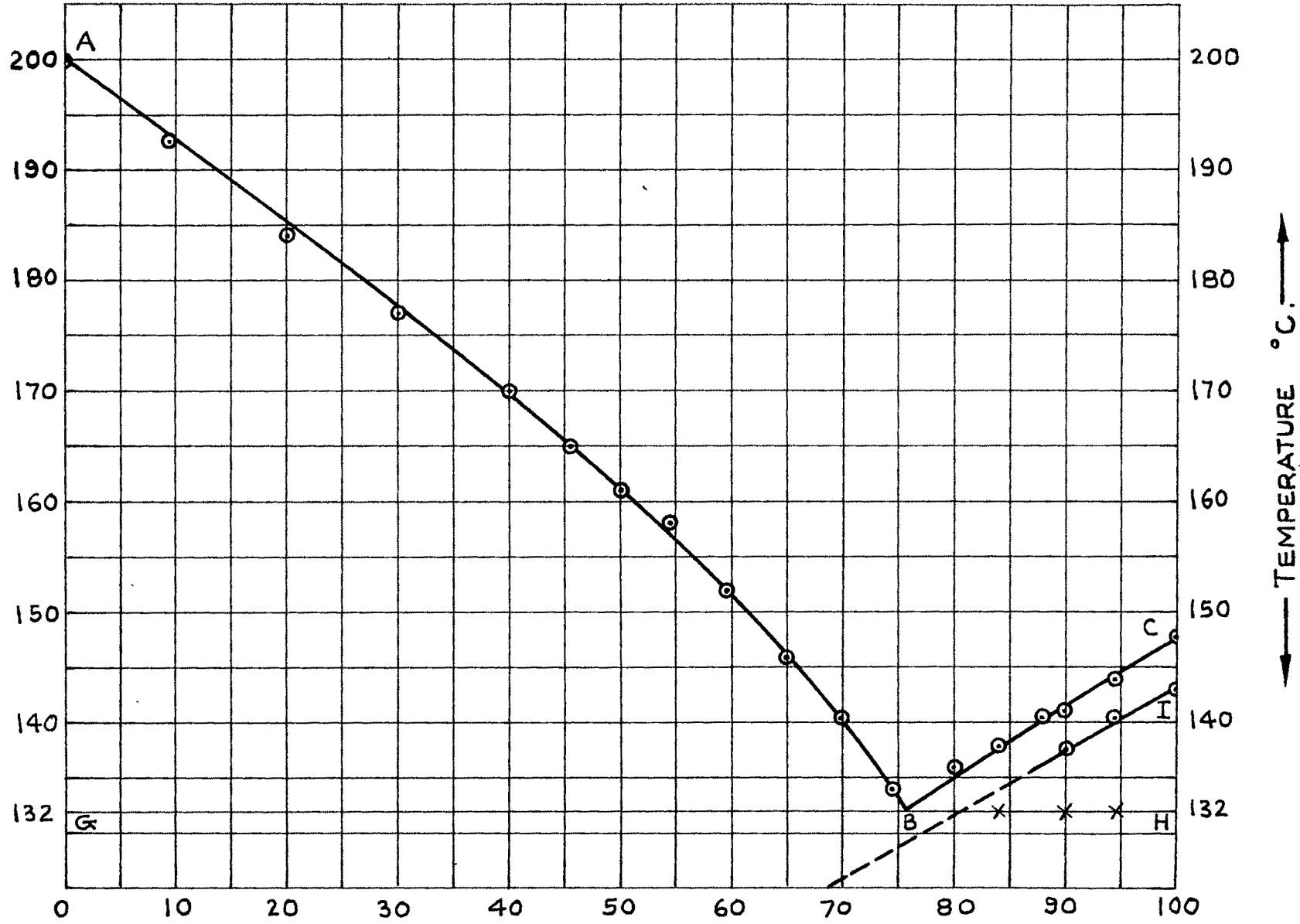
A
B
C
G
H
I
200
190
180
170
160
150
140
132
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ETHOXYBENZAL-p-PHENETIDINE
p-ETHOXYBENZAL-p-PHENETIDINE : p-NITROBENZAL-p-NITROANILINE

FIG. 89

Table 88

p-Ethoxybenzal-p-phenetidine : p-Nitrobenzal-p-nitroaniline

% of p-Ethoxybenzal-p-phenetidine	Mole % of p-Ethoxybenzal-p-phenetidine	M.P. in °C	T.P. in °C
100.00	100.00	148.0	(143.0)
96.01	94.82	144.0	(140.5)
90.80	90.05	141.2	(137.5)
87.00	87.96	140.5	-
85.06	84.31	138.0	-
79.91	80.34	136.0	-
74.56	74.64	134.0	-
70.20	70.36	140.5	-
65.00	65.48	146.0	-
60.89	59.62	152.0	-
55.20	54.73	158.0	-
50.30	50.42	161.0	-
46.15	45.67	165.0	-
40.51	40.03	169.9	-
30.40	30.23	177.0	-
19.75	20.03	184.0	-
9.70	9.67	192.5	-
00.00	00.00	200.0	-

Sintering Point = 132.0°C.

FIG. 90

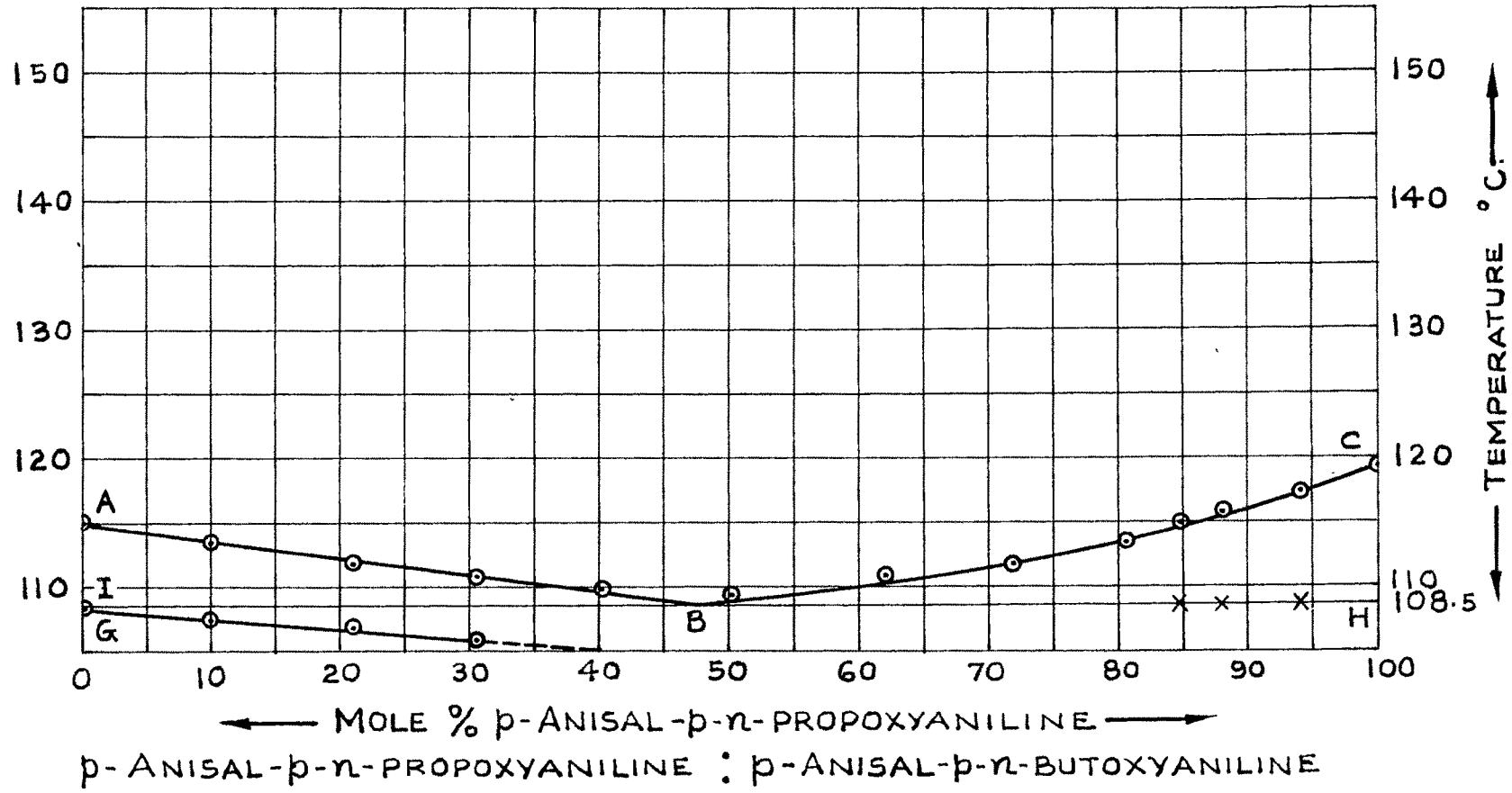
150
140
130
120
110
A
I
G
B
C
H
108.5
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-ANISAL-p-n-PROPOXYANILINE
p-ANISAL-p-n-PROPOXYANILINE : p-ANISAL-p-n-BUTOXYANILINE

Table 89

p-Anisal-p-n-propoxyaniline : p-Anisal-p-n-butoxyaniline

% of p-Anisal-p-n-propoxyaniline	Mole % of p-Anisal-p-n-propoxyaniline	M.P. in °C	T.P. in °C
100.00	100.00	119.5	-
97.59	93.97	117.5	-
88.00	88.00	116.0	-
86.50	84.89	115.0	-
80.41	80.65	113.5	-
72.59	71.90	112.0	-
62.61	62.10	111.2	-
49.79	50.05	109.5	-
39.80	40.10	110.0	-
29.60	30.59	111.0	(106.0)
20.20	21.35	111.8	(107.0)
12.30	10.31	113.5	(107.5)
00.00	00.00	115.0	(108.5)

Sintering Point = 108.5°C.

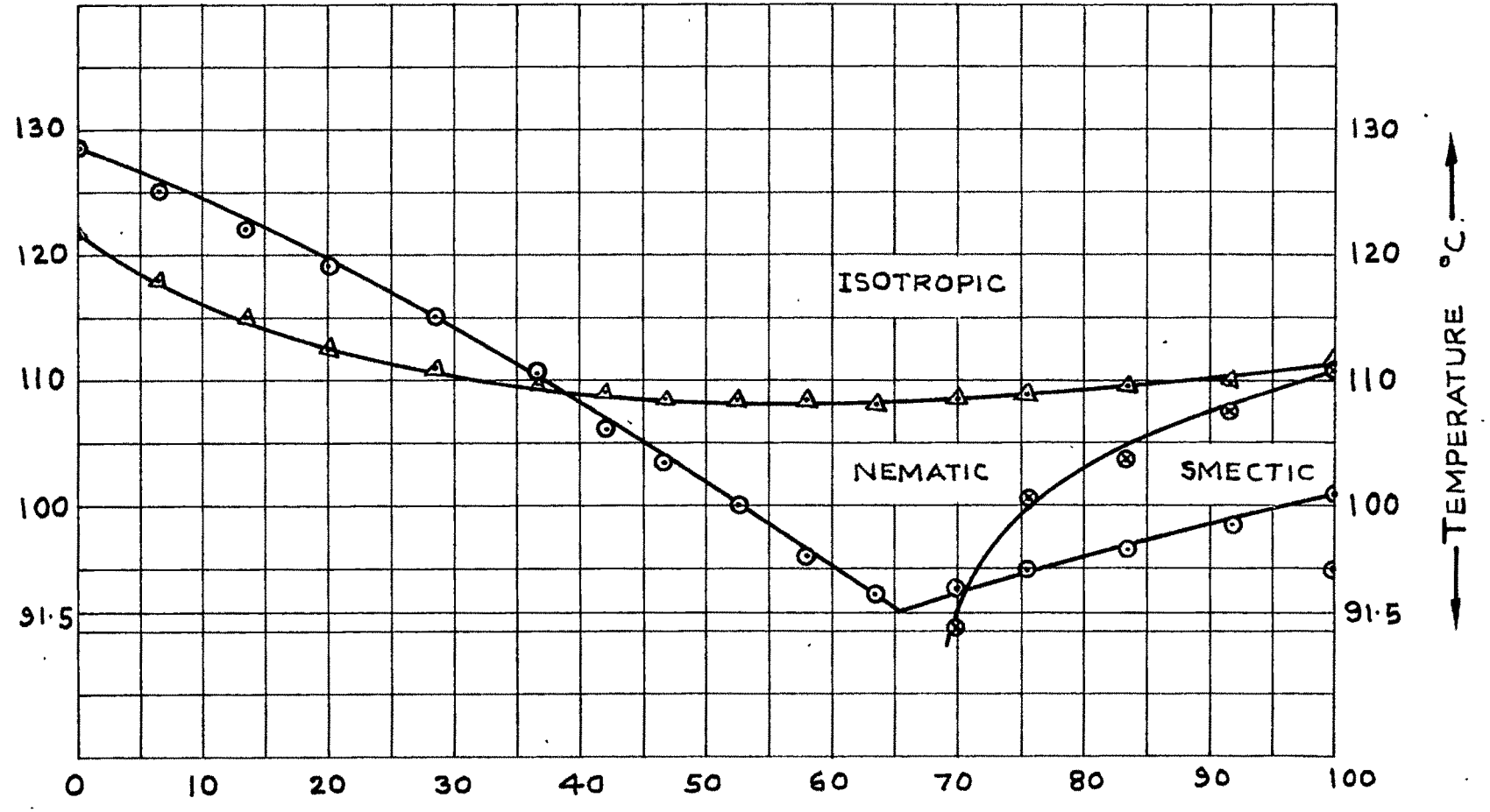
130
120
110
100
91·5
ISOTROPIC
NEMATIC
SMECTIC
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE
p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE : p-ANISAL-p-PHENETIDINE

FIG. 91

Table 90

P-n-Dodecyloxybenzal-p-n-butoxyaniline (A)

with

P-Anisal-p-phenetidine (B)

% of (A)	Mole % of (A)	Transition in °C from solid to Smectic	Nematic	Isotropic
100.00	100.00	101.0	111.0	111.5
96.63	91.85	98.5	107.6	109.8
90.12	83.58	96.5	103.5	109.5
84.76	75.56	95.0	100.5	109.0
80.05	70.28	(90.0)	93.5	108.5
76.15	63.75	-	93.0	108.0
70.55	58.09	-	96.0	108.5
66.12	52.60	-	99.9	108.5
60.50	46.76	-	103.5	108.5
56.24	42.26	-	105.8	108.8
50.24	36.67	-	(109.8)	110.5
40.85	28.75	-	(111.0)	115.0
29.70	20.01	-	(112.5)	119.0
20.90	13.45	-	(115.0)	122.0
10.90	6.71	-	(118.0)	125.0
00.00	00.00	-	(121.5)	128.5

Sintering Point = 91.5°C.

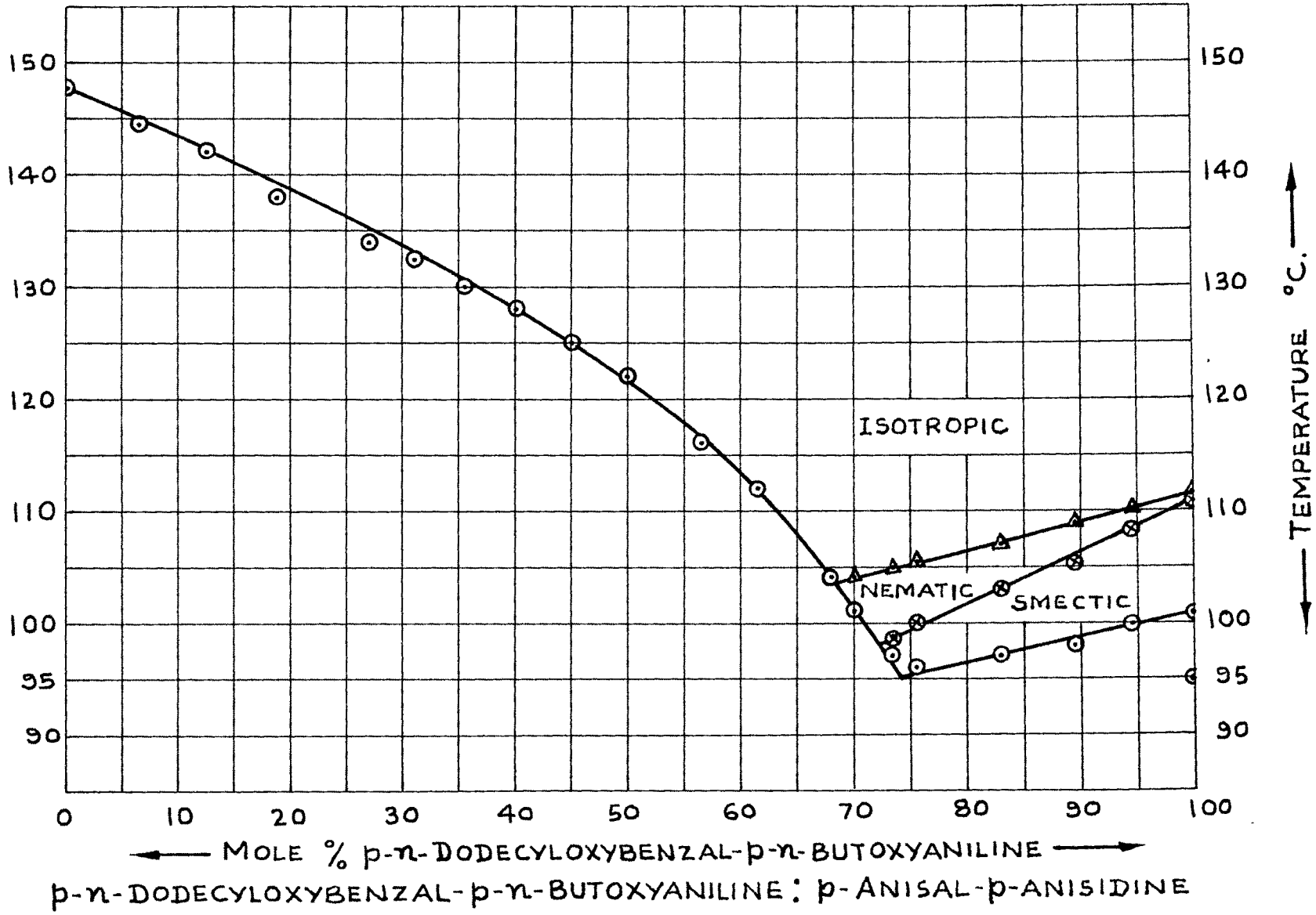
150
140
130
120
110
100
95
90
0
10
20
30
40
50
60
70
80
90
100
ISOTROPIC
NEMATIC
SMECTIC
TEMPERATURE °C.
← MOLE % p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE →
p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE : p-ANISAL-p-ANISIDINE

FIG. 92

Table 91

p-n-Dodecyloxybenzal-p-n-butoxyaniline (A)

with

p-Anisal-p-anisidine (B)

% of (A)	Mole % of (A)	Transition in °C from solid to Smectic	Nematic	Isotropic
100.00	100.00	101.0	111.0	111.5
98.24	94.56	100.0	108.0	109.8
95.45	89.76	98.0	105.0	109.0
90.95	83.35	97.0	103.0	107.0
85.43	75.48	96.0	100.0	105.5
83.27	73.45	97.0	98.5	105.0
80.49	70.26	-	101.0	104.0
79.87	68.08	-	-	104.0
74.92	61.48	-	-	112.0
70.50	56.48	-	-	116.0
64.25	50.20	-	-	122.0
60.01	45.25	-	-	125.0
55.14	40.16	-	-	128.0
49.96	35.52	-	-	130.0
45.40	31.26	-	-	132.6
40.21	27.10	-	-	134.0
29.25	18.80	-	-	138.0
20.70	12.56	-	-	142.0
10.25	6.69	-	-	144.6
00.00	00.00	-	-	148.0

Sintering Point = 95.0°C.

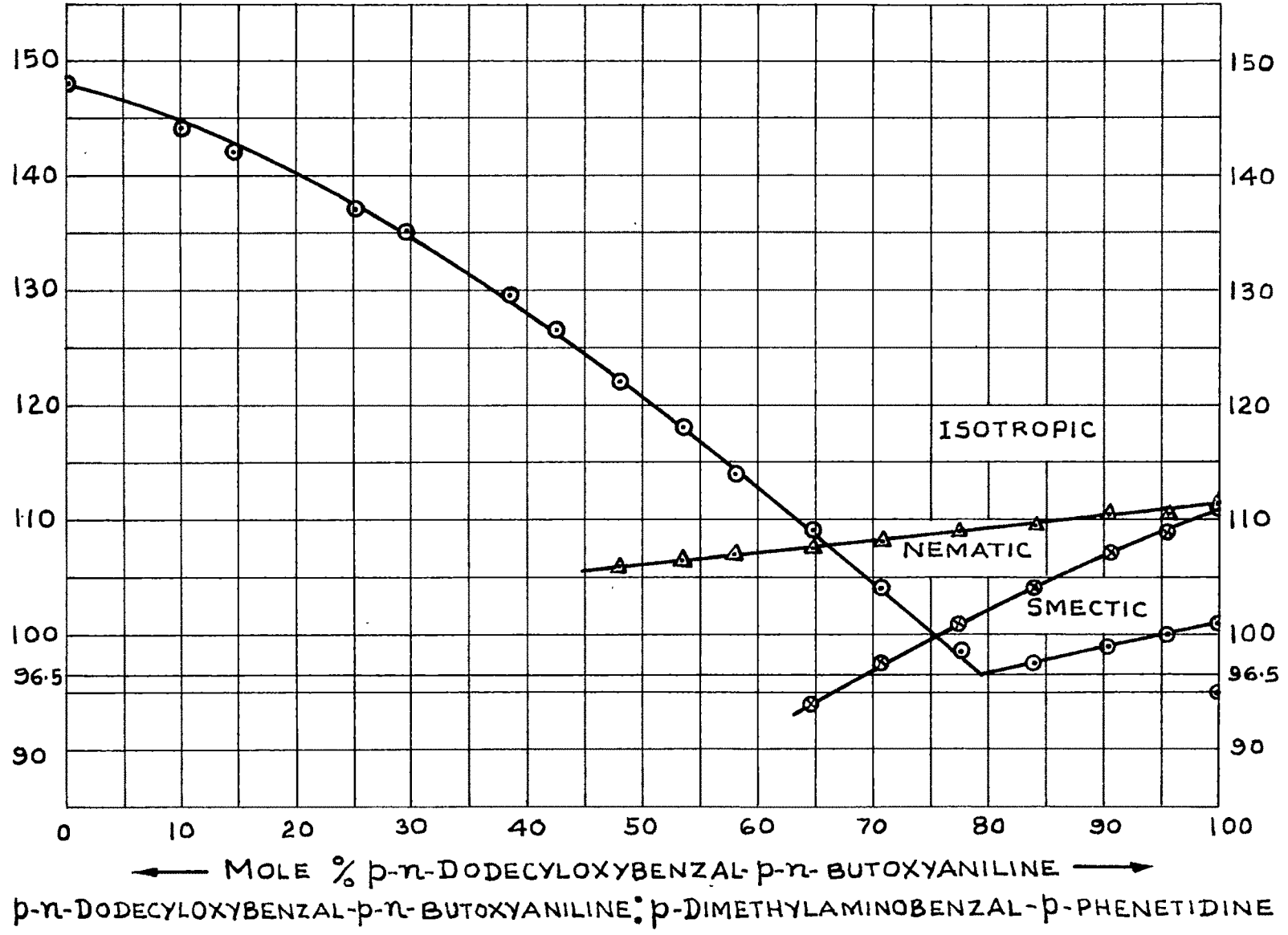
150
140
130
120
110
100
96·5
90
0
10
20
30
40
50
60
70
80
90
100
ISOTROPIC
NEMATIC
SMECTIC
TEMPERATURE °C.
MOLE % p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE
p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE : p-DIMETHYLAMINOBENZAL-p-PHENETIDINE

FIG. 93

Table 92

P-n-Dodecyloxybenzal-p-n-butoxyaniline (A)

with

P-Dimethylaminobenzal-p-phenetidine (B)

% of(A)	Mole % of (A)	Transition in °C from solid to Smectic	Nematic	Isotropic
100.00	100.00	101.0	111.0	111.5
98.28	95.64	100.0	109.0	110.6
94.97	90.69	99.0	107.0	110.5
90.12	84.10	97.5	104.0	109.5
84.10	77.47	98.5	101.0	109.0
79.16	70.82	(97.5)	104.0	108.0
75.80	64.88	(94.0)	(107.5)	109.0
69.60	57.99	-	(107.0)	114.0
64.75	53.52	-	(106.5)	118.0
59.81	48.28	-	(106.0)	122.0
55.44	42.69	-	-	126.5
50.64	38.50	-	-	129.5
41.15	29.76	-	-	135.0
37.65	25.24	-	-	137.0
30.35	14.50	-	-	142.0
22.10	10.02	-	-	144.0
00.00	00.00	-	-	148.0

Sintering Point = 96.5°C.

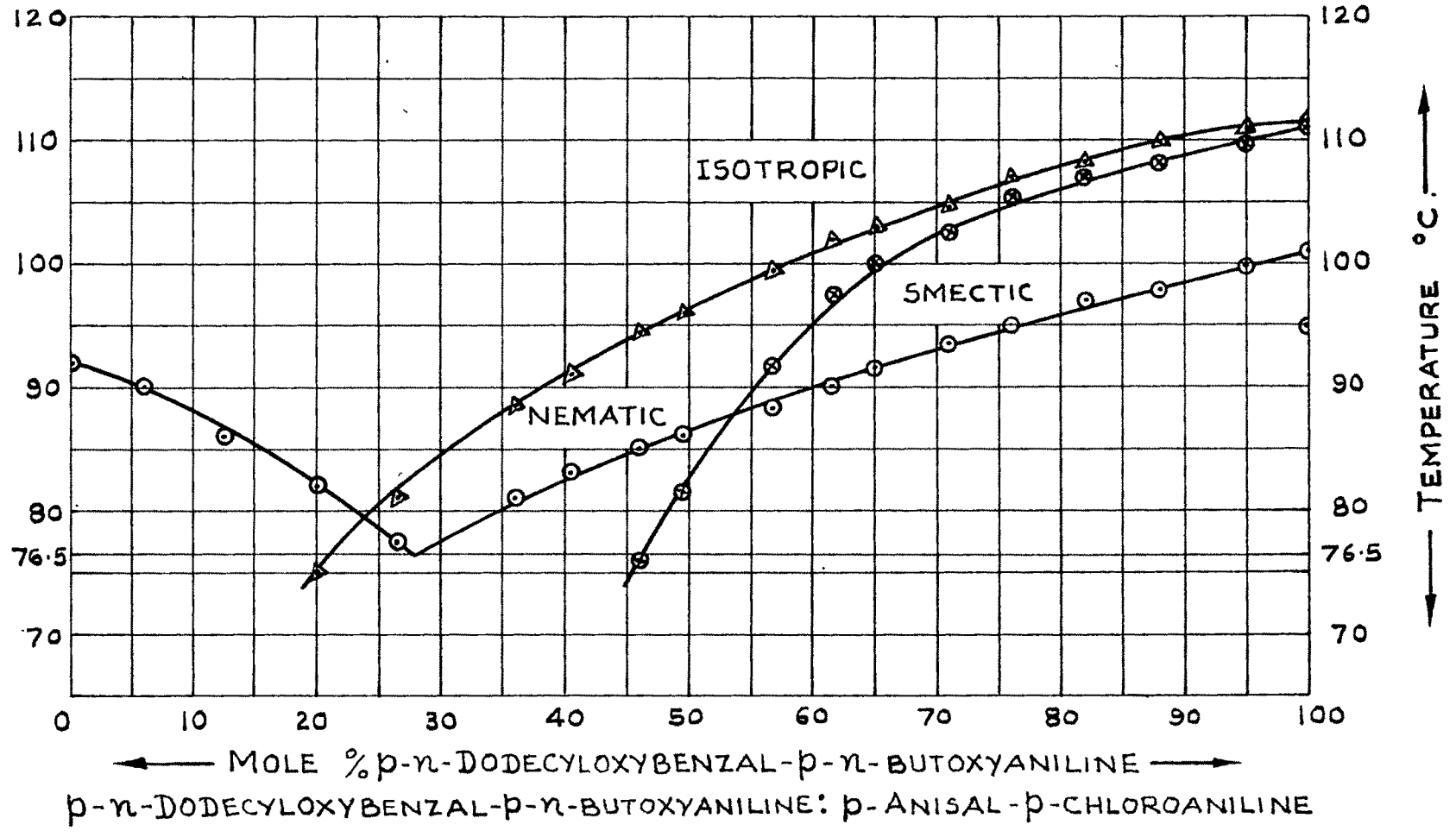
120
110
100
90
80
76·5
70
ISOTROPIC
SMECTIC
NEMATIC
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE
p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE: p-ANISAL-p-CHLOROANILINE

FIG. 94

Table 93

p-n-Dodecyloxybenzal-p-n-butoxyaniline (A)

with

p-Anisal-p-chloroaniline (B)

% of (A)	Mole % of (A)	Transition in °C from solid to Smectic	Nematic	Isotropic
100.00	100.00	101.0	111.0	111.5
98.28	95.24	100.0	109.5	110.8
94.32	88.06	98.0	108.0	110.0
90.12	82.21	97.0	107.0	108.2
85.31	76.10	95.0	105.5	107.0
79.87	71.24	93.5	102.5	104.5
78.24	65.04	91.5	100.0	102.8
75.06	61.55	90.0	97.5	102.0
69.50	56.69	88.0	91.5	99.5
64.51	49.64	(81.5)	86.0	96.0
60.64	45.97	(76.0)	85.0	94.5
54.81	40.62	-	83.0	91.0
50.29	36.04	-	81.0	88.5
39.90	26.87	-	77.5	81.0
30.26	20.02	-	(75.0)	82.0
20.25	12.50	-	-	86.0
10.55	6.25	-	-	90.0
00.00	00.00	-	-	92.0

Sintering Point = 76.5°C.

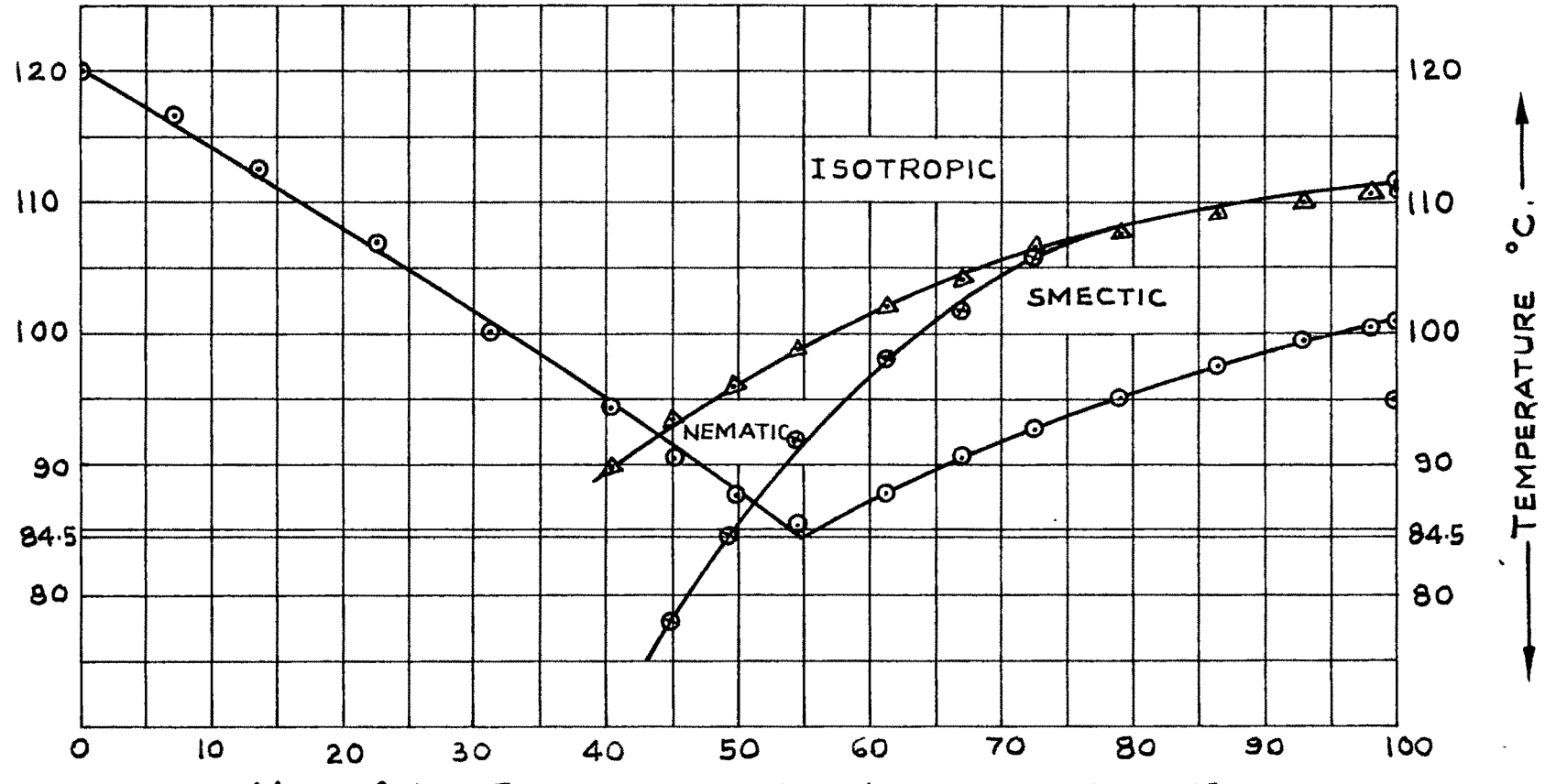
120
110
100
90
84.5
80
ISOTROPIC
SMECTIC
NEMATIC
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
← MOLE % p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE →
p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE: p-ANISAL-p-BROMOANILINE

FIG. 95

Table 94

P-n-Dodecyloxybenzal-p-n-butoxyaniline (A)

with

P-Anisal-p-bromoaniline (B)

% of (A)	Mole % of (A)	Transition in °C from solid to Smectic	Nematic	Isotropic
100.00	100.00	101.0	111.0	111.5
98.82	98.04	100.5	-	110.6
94.70	93.30	99.5	-	110.0
89.45	86.60	97.5	-	109.0
84.10	79.21	95.0	-	107.5
79.55	72.52	92.5	106.0	106.5
74.90	66.91	90.5	101.5	103.8
71.80	61.44	88.0	98.0	102.0
64.40	54.84	85.5	92.0	98.8
59.85	49.98	(84.5)	87.5	95.8
56.50	45.21	(78.0)	90.6	93.5
50.90	40.41	-	(89.8)	94.2
40.65	31.37	-	-	100.0
30.25	22.49	-	-	107.0
18.75	13.45	-	-	112.6
10.20	7.21	-	-	117.0
00.00	00.00	-	-	120.0

Sintering Point = 84.5°C.

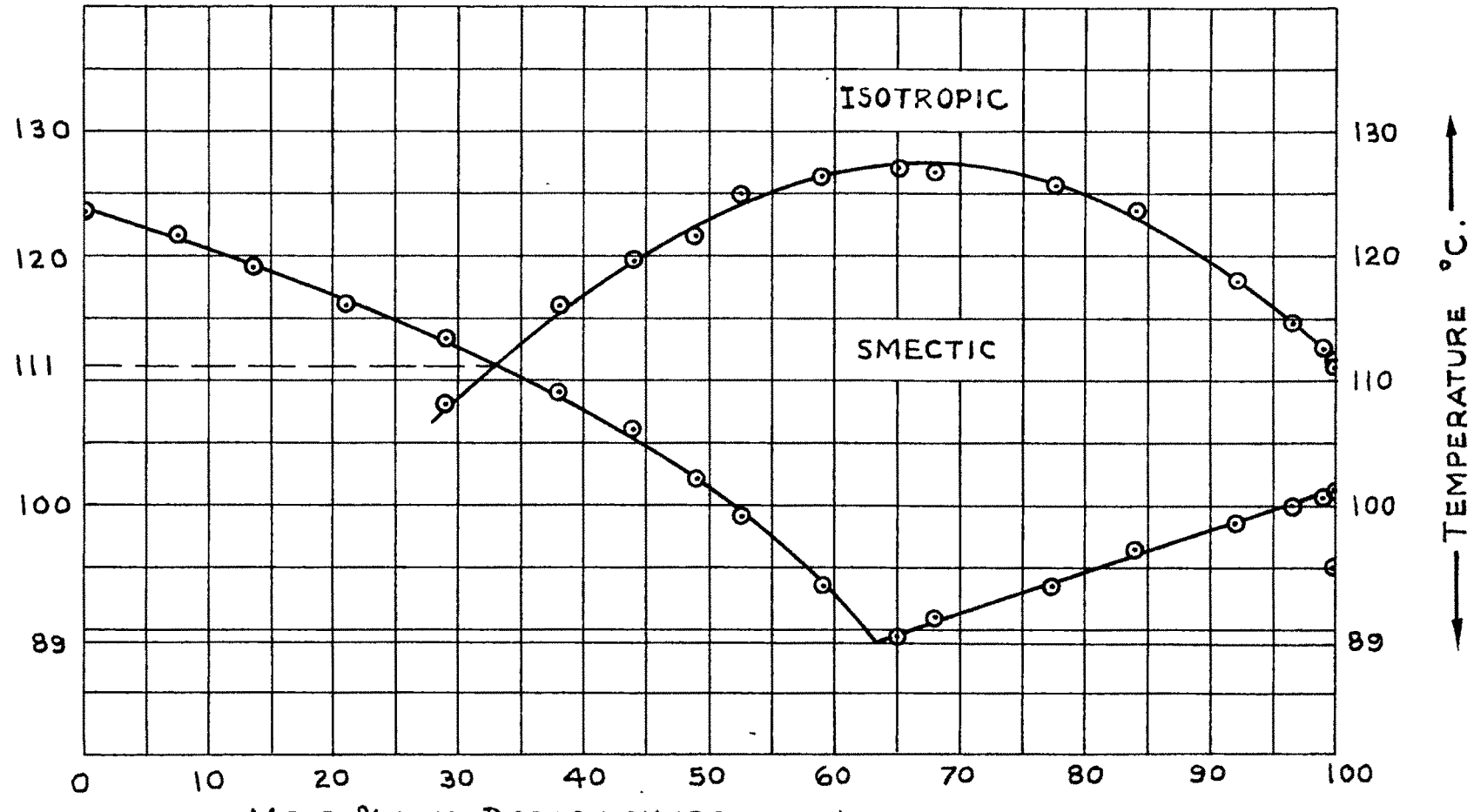
ISOTROPIC
SMECTIC
130
120
111
100
89
0
10
20
30
40
50
60
70
80
90
100
TEMPERATURE °C.
MOLE % p-n-DODECYLOXYBENZAL-p-n- BUTOXYANILINE
p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE : p-NITROBENZAL-p- PHENETIDINE

FIG. 96

Table 95

p-n-Dodecyloxybenzal-p-n-butoxyaniline (A)

with

p-Nitrobenzal-p-phenetidine (B)

% of (A)	Mole % of (A)	Transition in °C from solid to Smectic	Nematic	Isotropic
100.00	100.00	101.0	111.0	111.5
99.04	98.83	100.5	-	112.8
98.19	96.63	100.0	-	114.5
98.54	92.42	98.5	-	118.0
90.80	84.24	96.5	-	123.5
87.90	77.59	93.5	-	125.5
79.60	68.29	91.0	-	126.5
77.92	65.39	89.5	-	127.0
71.00	59.32	93.5	-	126.5
64.70	52.48	99.0	-	125.0
61.60	48.96	102.2	-	121.5
56.50	43.85	106.0	-	119.5
50.80	38.00	109.2	-	116.0
40.00	29.11	(108.0)	-	113.5
30.70	21.13	-	-	116.0
20.30	13.45	-	-	119.2
11.70	7.48	-	-	121.5
00.00	00.00	-	-	123.5

Sintering Point = 89.0°C.

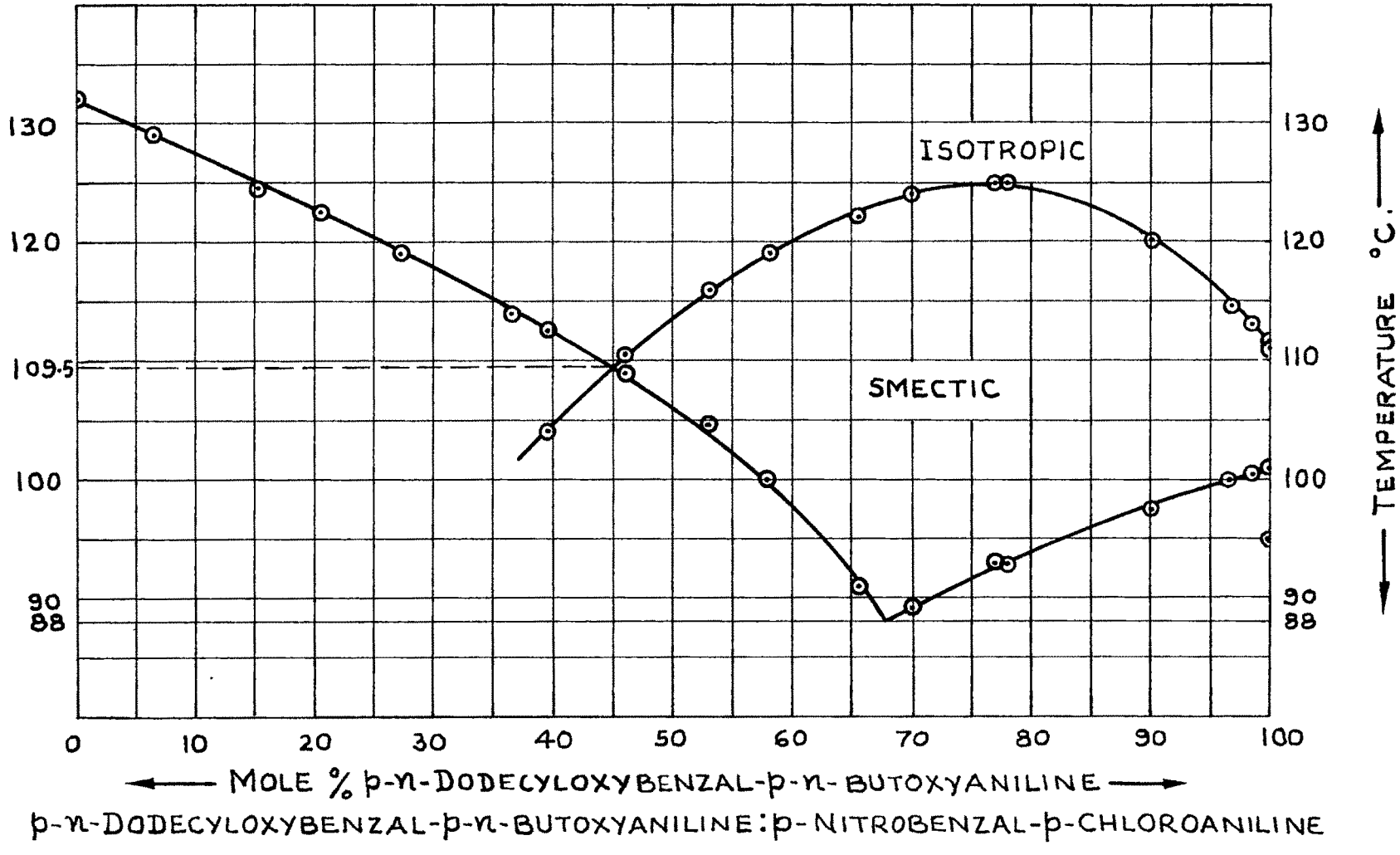
130
120
109·5
100
90
88
ISOTROPIC
SMECTIC
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE
p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE : p-NITROBENZAL-p-CHLOROANILINE
TEMPERATURE °C.

FIG. 97

Table 96

p-n-Dodecyloxybenzal-p-n-butoxyaniline (A)

with

p-Nitrobenzal-p-chloroaniline (B)

% of (A)	Mole % of (A)	Transition in °C from solid to Smectic	Nematic	Isotropic
100.00	100.00	101.0	111.0	111.5
99.04	98.45	100.5	-	113.0
98.00	96.92	100.0	-	114.5
95.40	90.33	97.5	-	120.0
89.40	78.18	93.2	-	125.2
86.70	77.43	93.0	-	125.0
80.70	70.03	89.0	-	124.0
75.70	65.51	91.0	-	122.0
71.50	58.38	100.0	-	119.0
66.10	53.16	104.5	-	116.0
59.50	46.09	109.0	-	110.5
56.20	39.71	(104.0)	-	112.5
49.90	36.53	-	-	114.0
39.70	27.44	-	-	119.0
30.90	20.80	-	-	122.5
25.50	15.77	-	-	124.5
11.20	6.74	-	-	129.0
00.00	00.00	-	-	132.0

Sintering Point = 88.0°C.

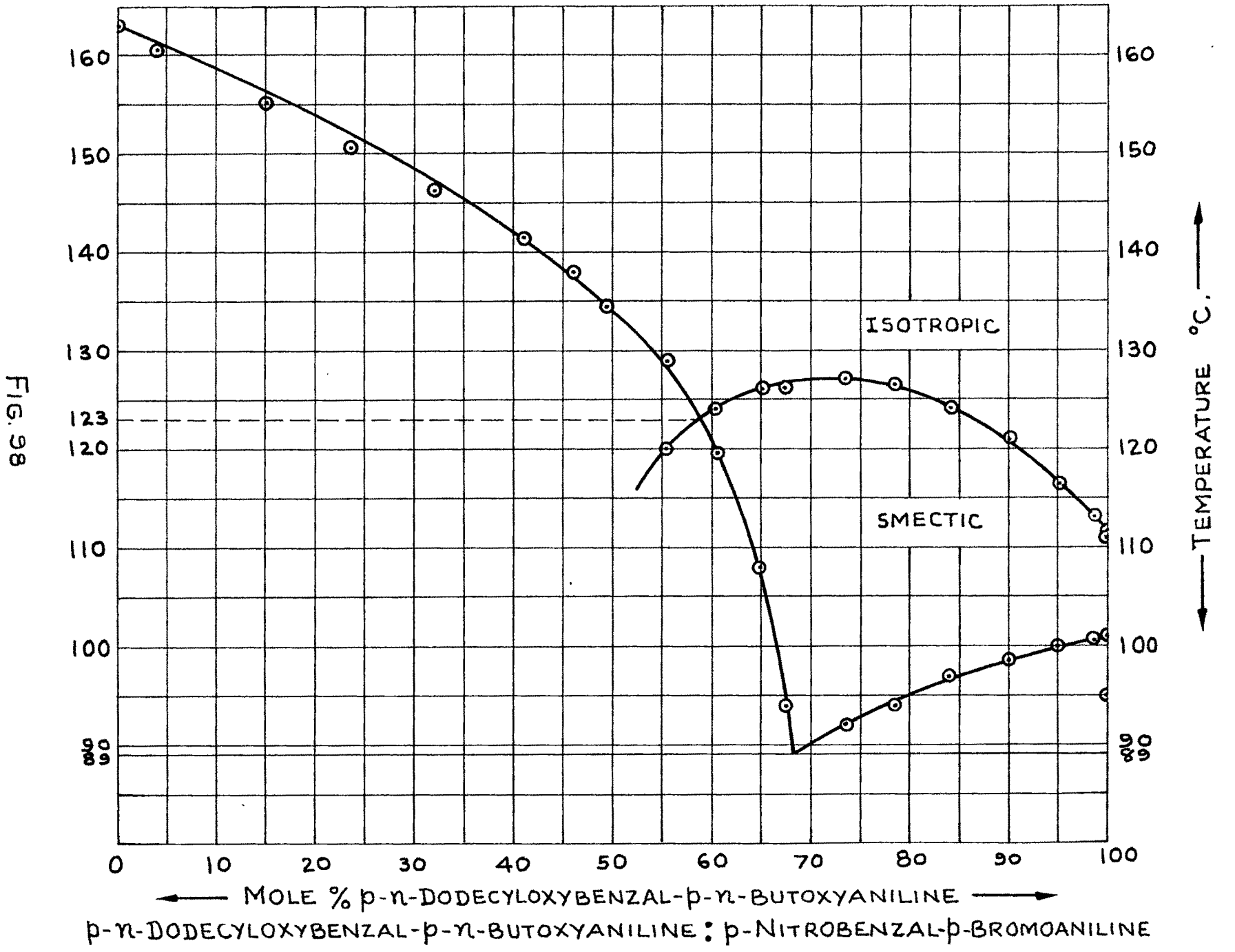
160
150
140
130
123
120
110
100
90
89
ISOTROPIC
SMECTIC
TEMPERATURE °C.
0
10
20
30
40
50
60
70
80
90
100
MOLE % p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE
p-n-DODECYLOXYBENZAL-p-n-BUTOXYANILINE : p-NITROBENZAL-p-BROMOANILINE

FIG. 98

Table 97

p-n-Dodecyloxybenzal-p-n-butoxyaniline (A)

with

p-Nitrobenzal-p-bromoaniline (B)

% of (A)	Mole % of (A)	Transition in °C from solid to Smectic	Nematic	Isotropic
100.00	100.00	101.0	111.0	111.5
99.04	98.58	100.5	-	113.2
98.44	95.24	100.0	-	116.5
94.68	90.02	98.5	-	121.0
90.20	83.99	97.0	-	124.0
85.80	78.56	94.0	-	126.5
81.00	73.52	92.0	-	126.8
75.70	67.66	94.0	-	126.2
73.40	65.22	108.0	-	126.0
70.89	60.89	119.5	-	124.0
65.80	55.97	(120.0)	-	129.0
60.01	49.81	-	-	134.5
57.31	45.99	-	-	138.0
51.90	41.47	-	-	141.5
41.40	32.18	-	-	146.0
32.29	23.82	-	-	150.5
21.10	15.21	-	-	155.0
5.50	4.09	-	-	160.5
00.00	00.00	-	-	163.0

Sintering Point = 89.0°C.