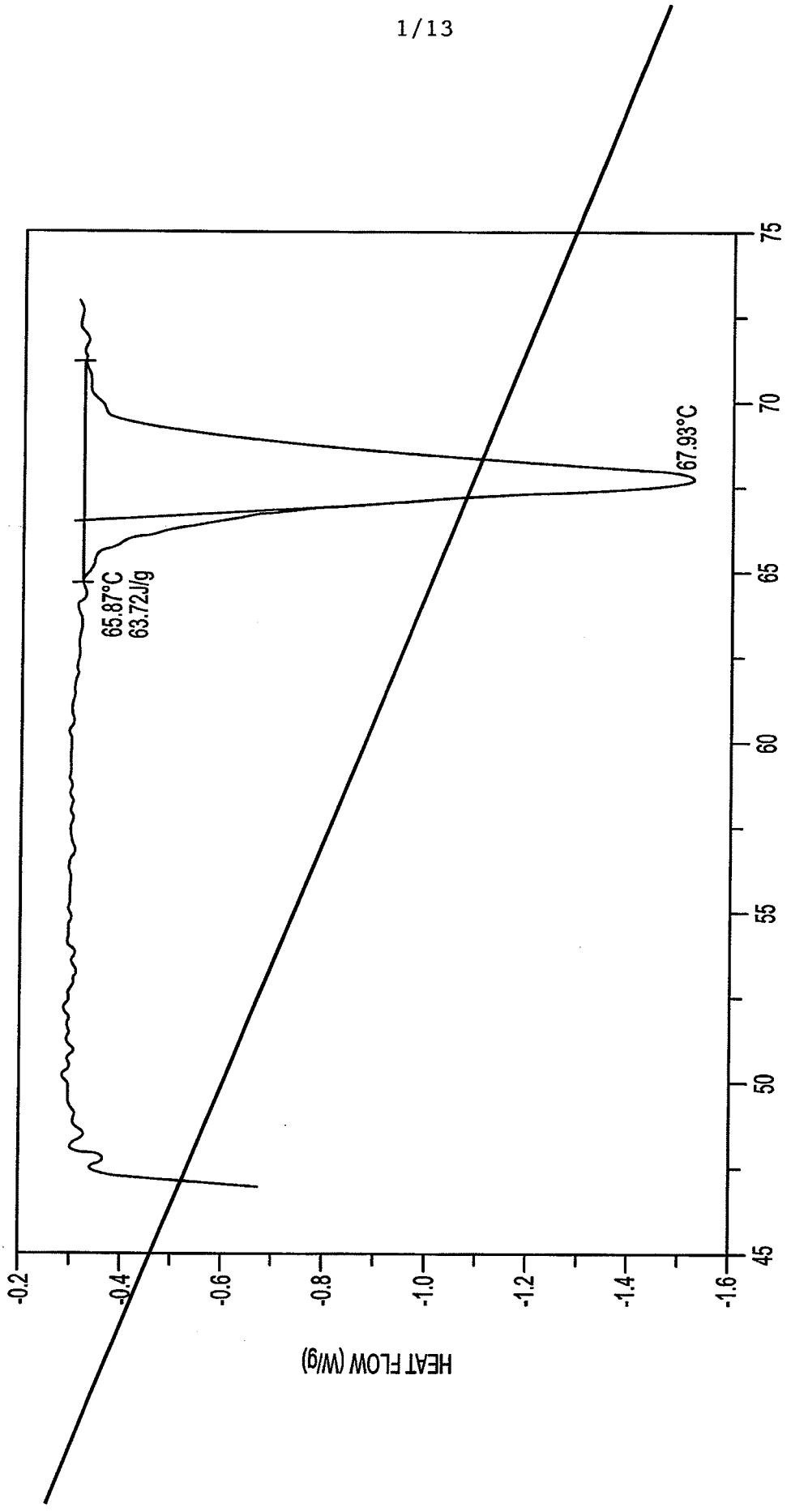

65.87°C
63.72J/g
67.93°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
-1.4
-1.6
45
50
55
60
65
70
75

FIG. 1

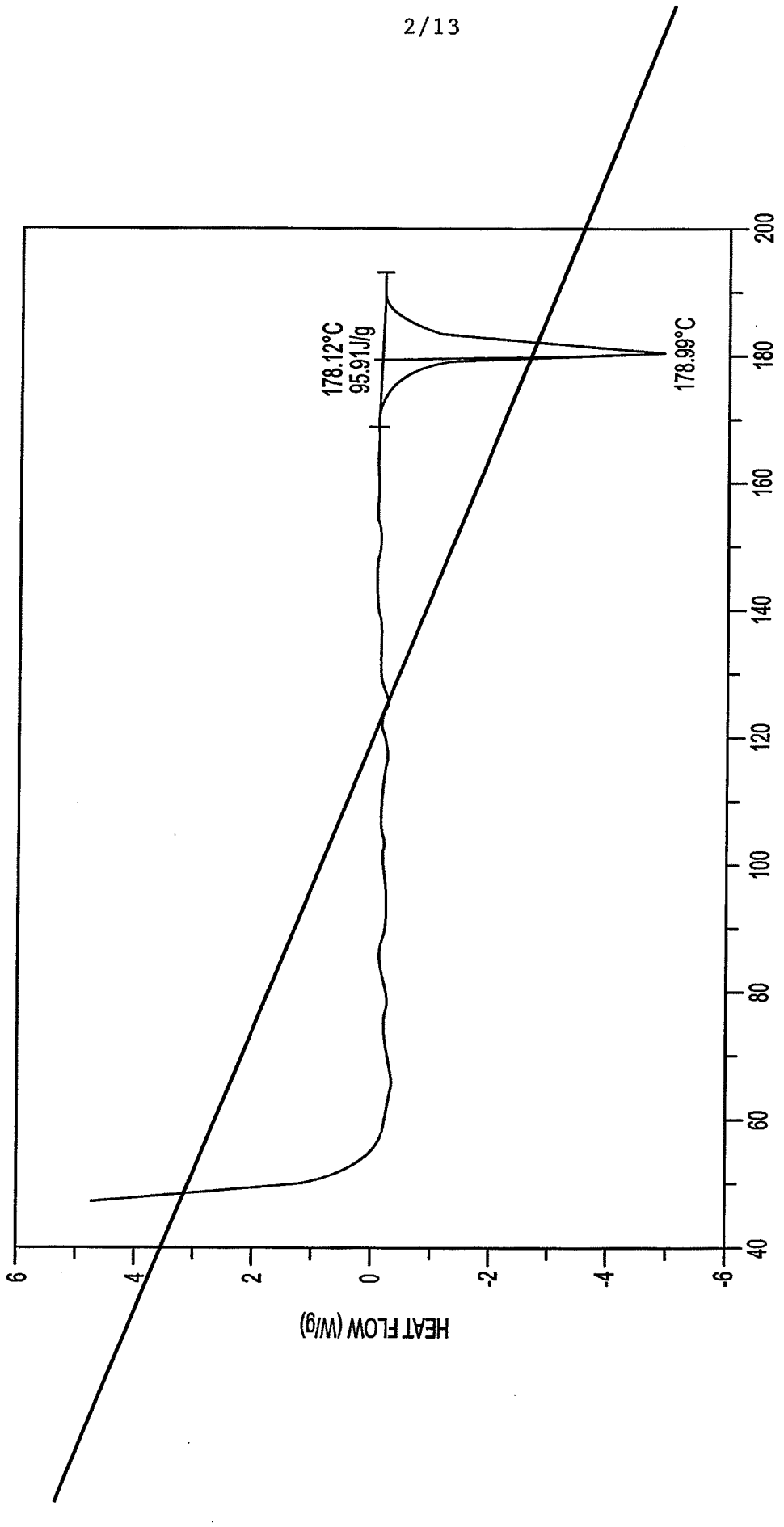

178.12°C
95.91J/g
178.99°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
6
4
2
0
-2
-4
-6
40
60
80
100
120
140
160
180
200

FIG. 2

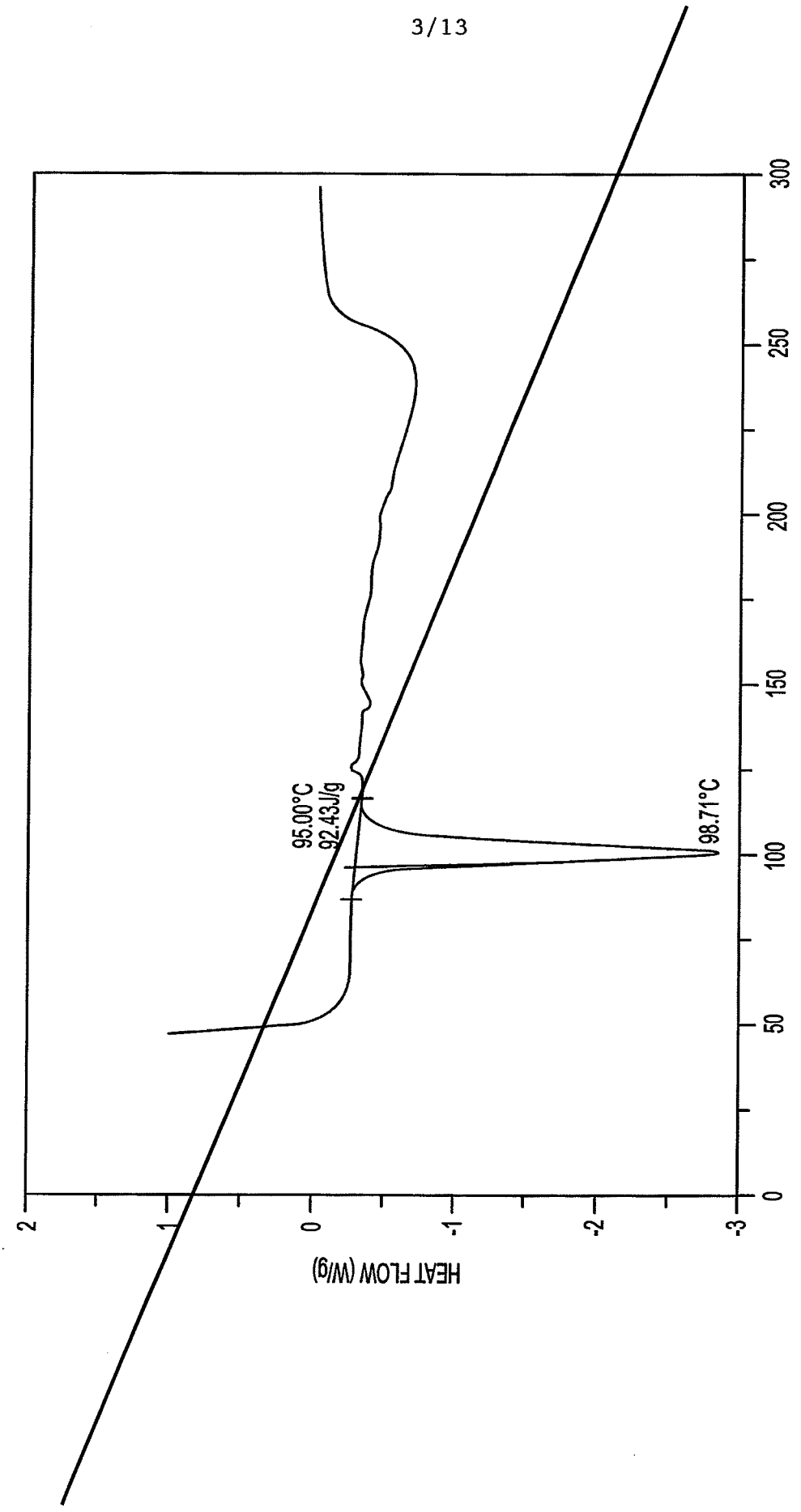

95.00°C
92.43J/g
98.71°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
2
1
0
-1
-2
-3
0
50
100
150
200
250
300

FIG. 3

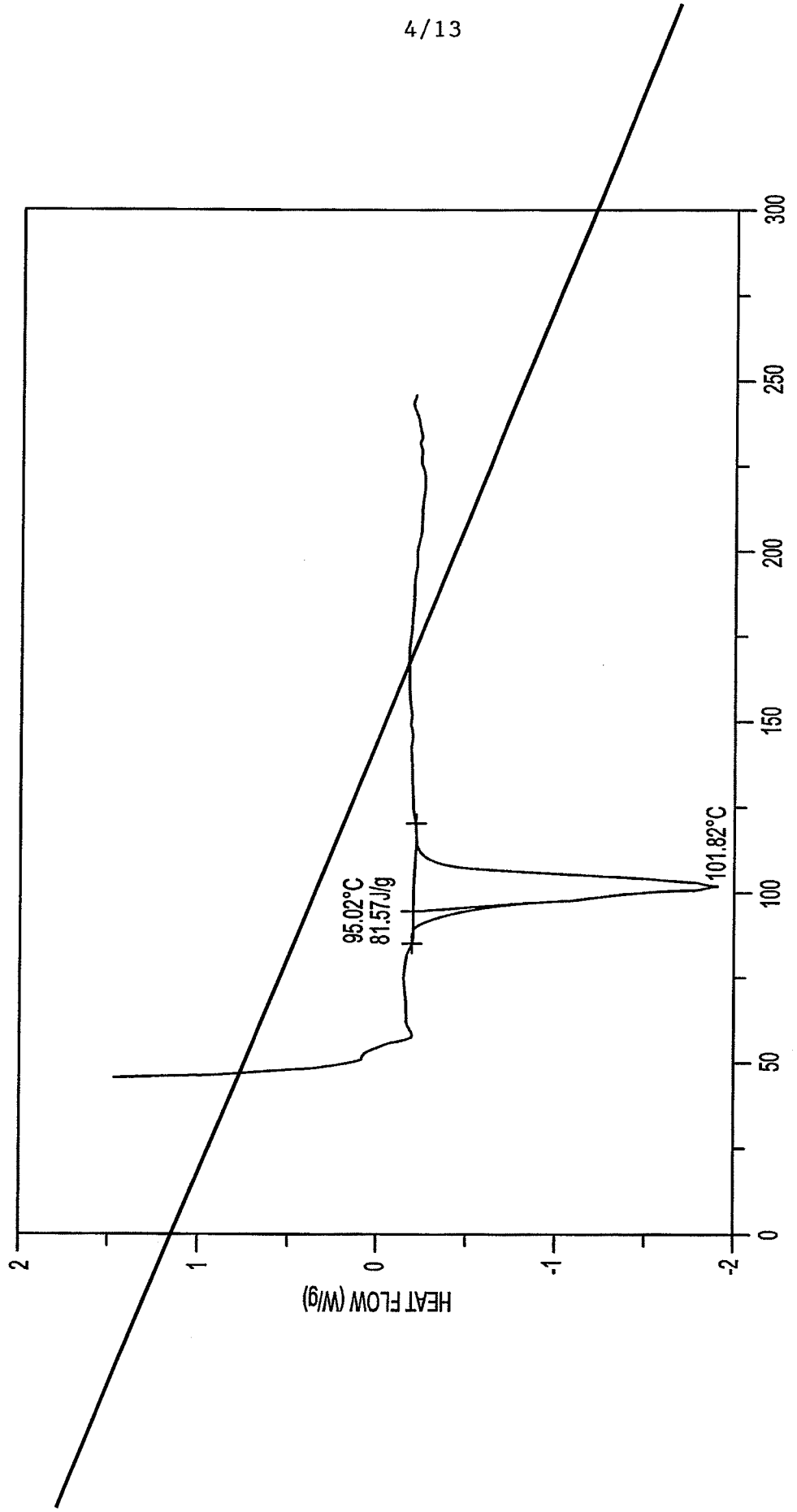

HEAT FLOW (W/g)
2
1
0
-1
-2
0
50
100
150
200
250
300
TEMPERATURE (°C)
95.02°C
81.57J/g
101.82°C

FIG. 4

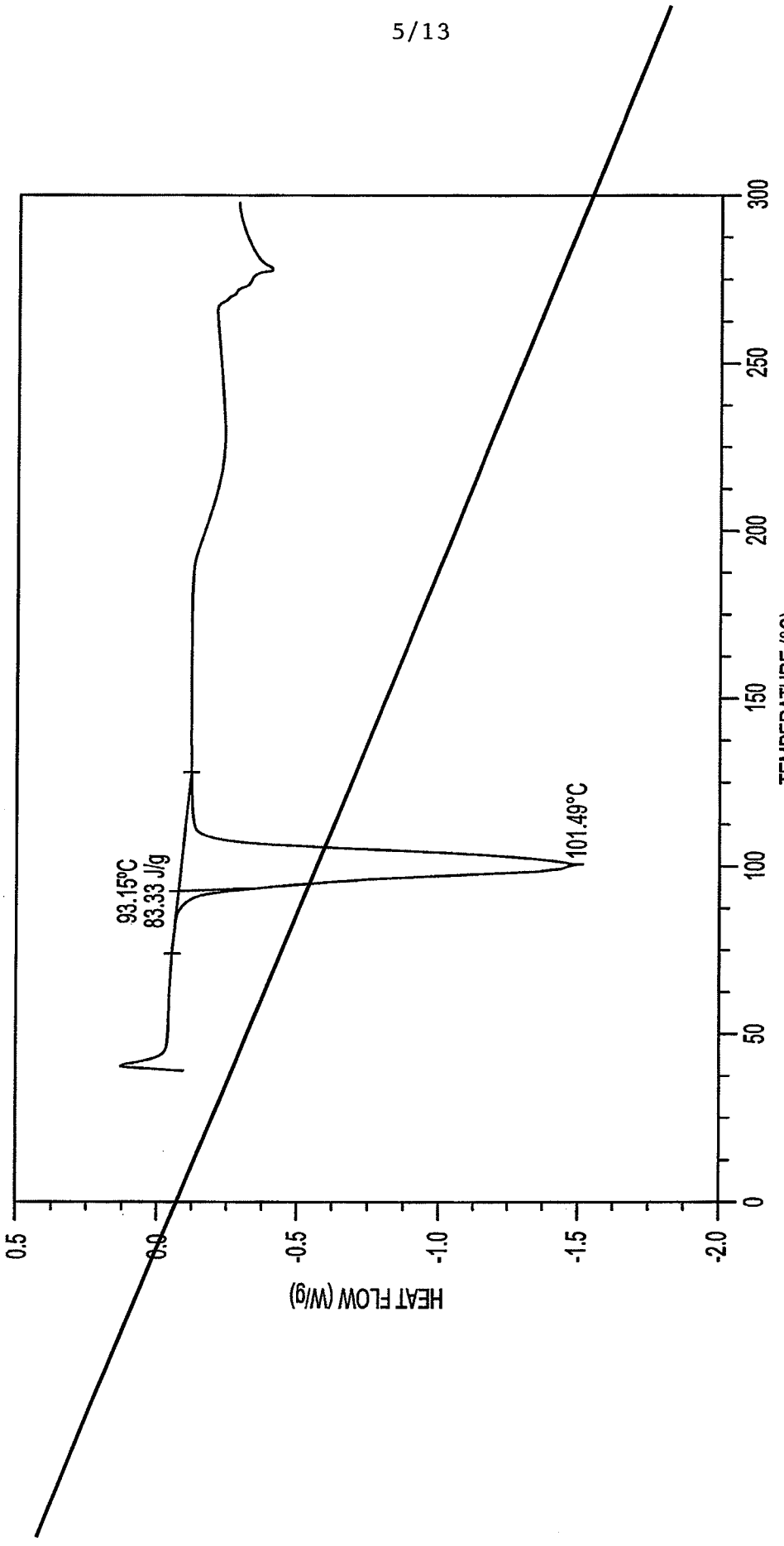

93.15°C
83.33 J/g
101.49°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
0.5
0.0
-0.5
-1.0
-1.5
-2.0
0
50
100
150
200
250
300

FIG. 5

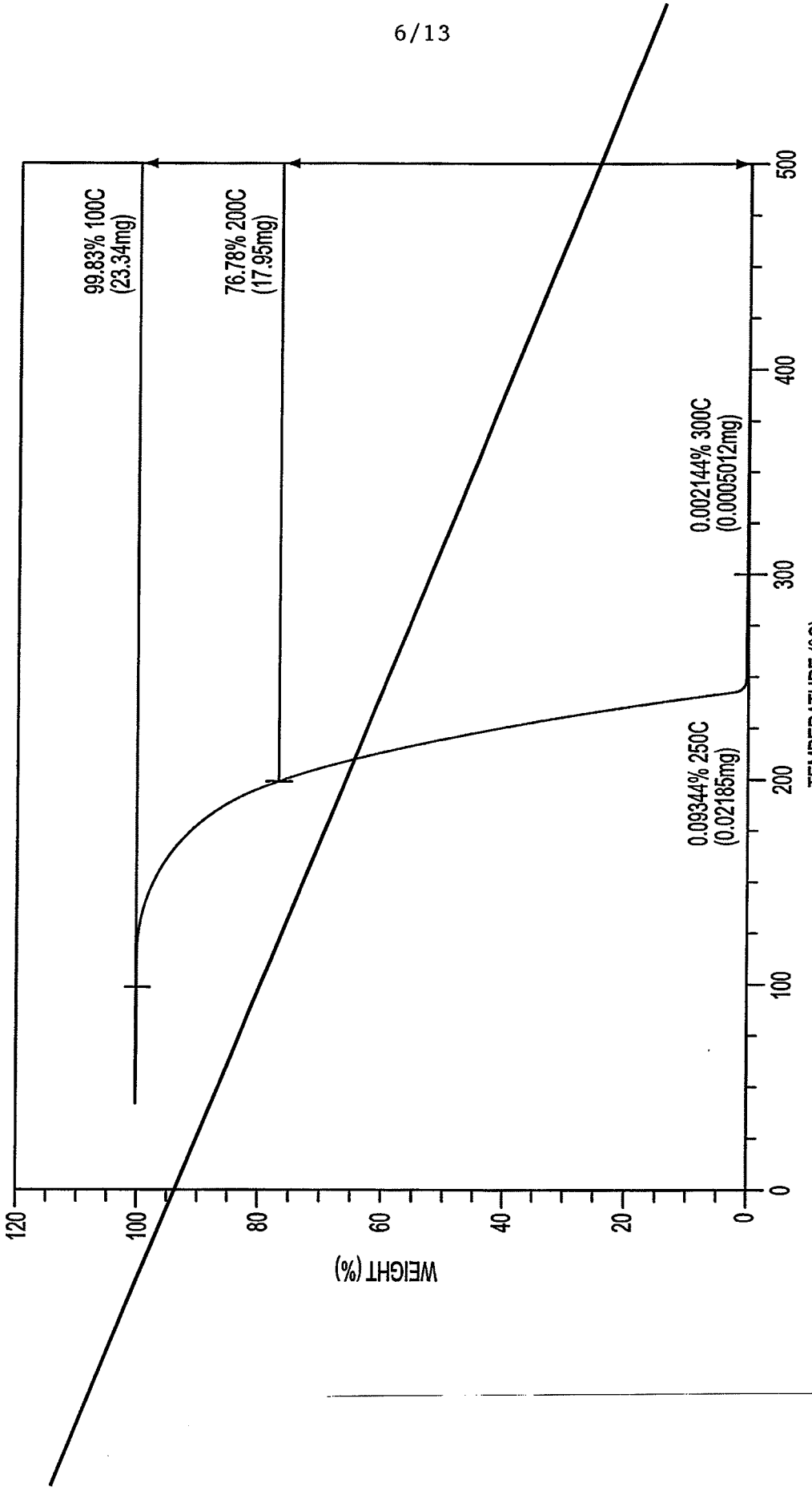

99.83% 100C
(23.34mg)
76.78% 200C
(17.95mg)
0.002144% 300C
(0.0005012mg)
0.09344% 250C
(0.02185mg)
WEIGHT (%)
TEMPERATURE (°C)
120
100
80
60
40
20
0
0
100
200
300
400
500

FIG. 6

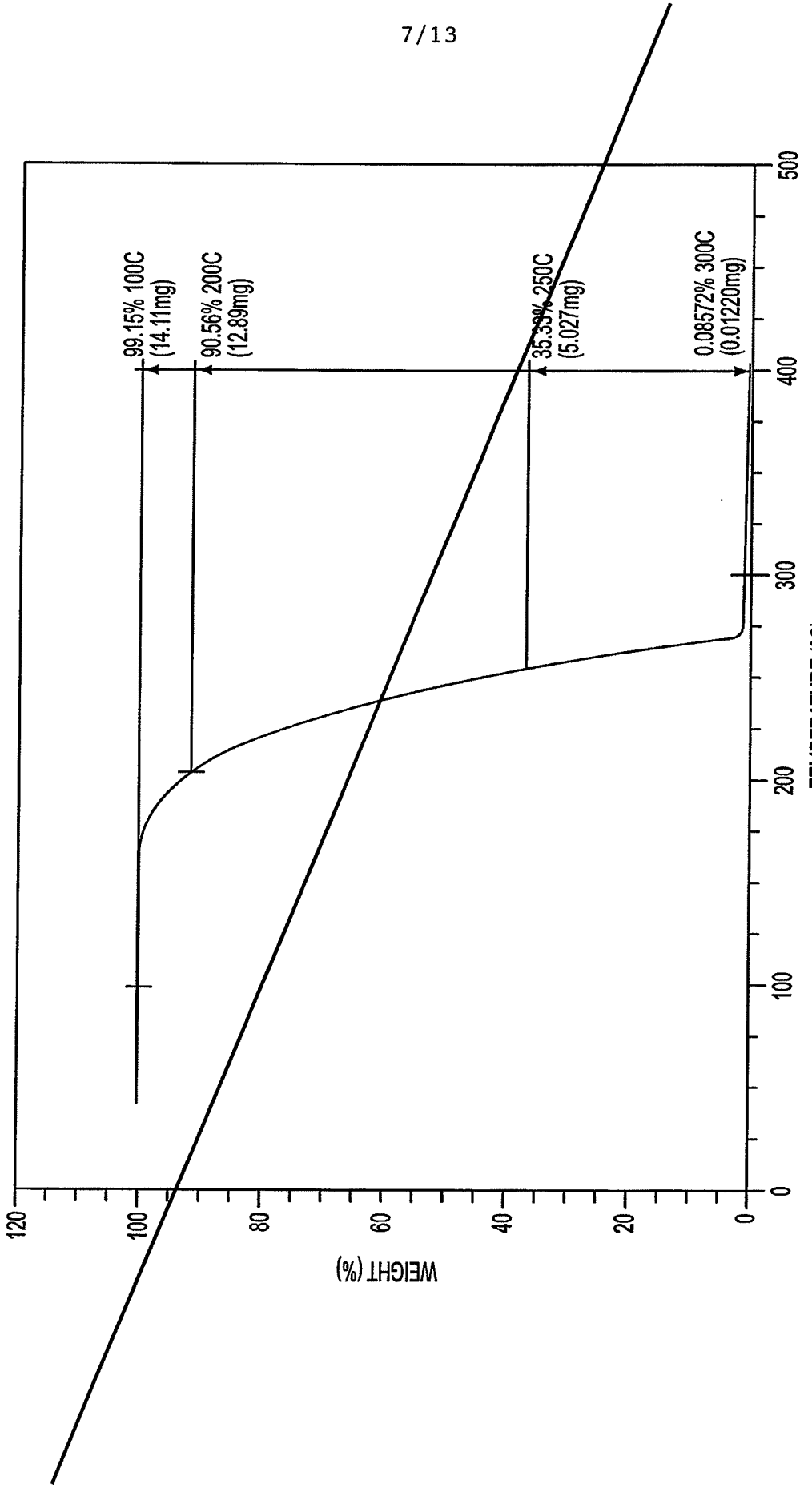

99.15% 100C
(14.11mg)
90.56% 200C
(12.89mg)
35.39% 250C
(5.027mg)
0.08572% 300C
(0.01220mg)
WEIGHT (%)
TEMPERATURE (°C)
120
100
80
60
40
20
0
0
100
200
300
400
500

FIG. 7

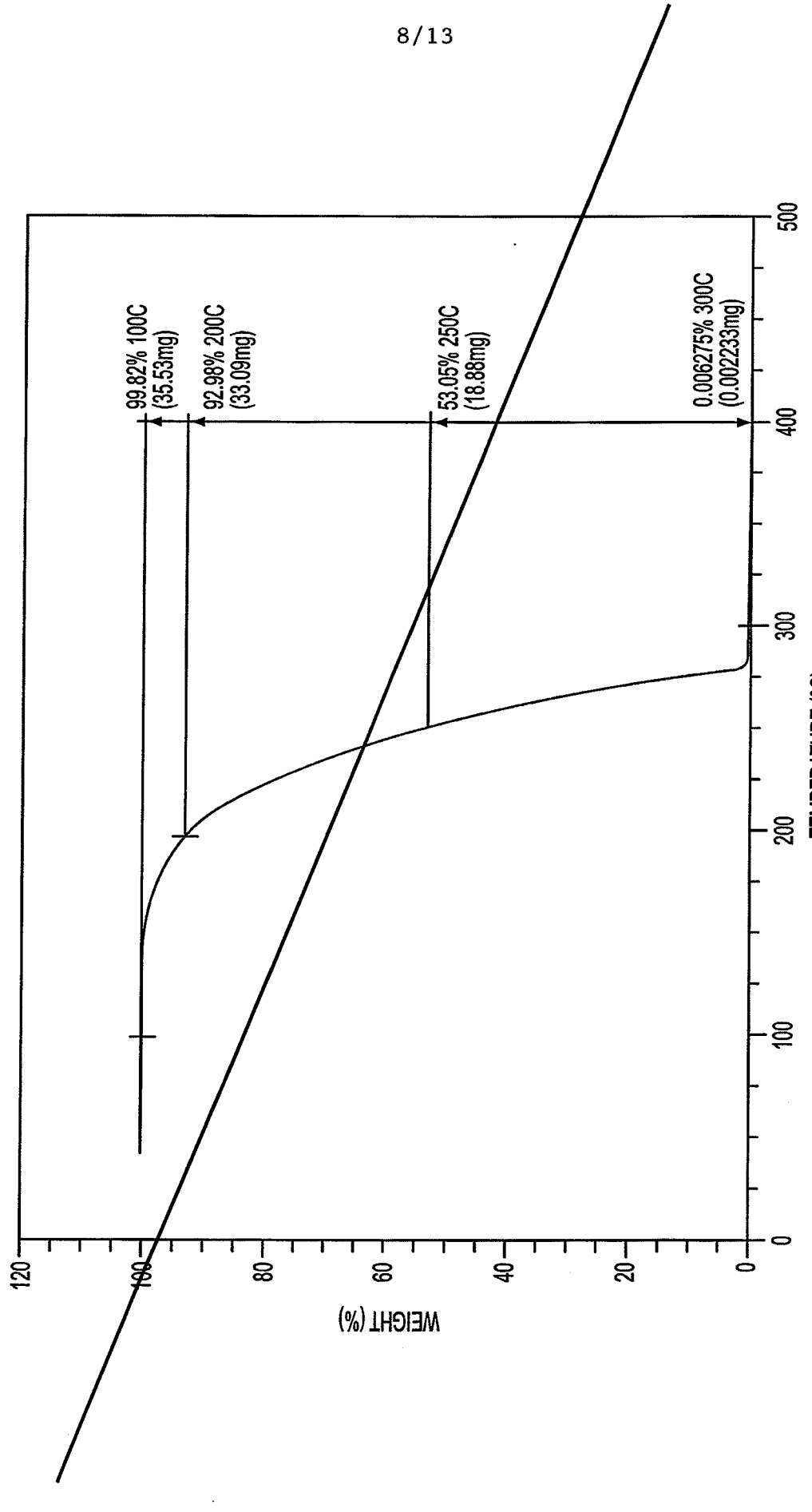

99.82% 100C
(35.53mg)
92.98% 200C
(33.09mg)
53.05% 250C
(18.88mg)
0.006275% 300C
(0.002233mg)
WEIGHT (%)
TEMPERATURE (°C)
0
20
40
60
80
100
120
0
100
200
300
400
500

FIG. 8

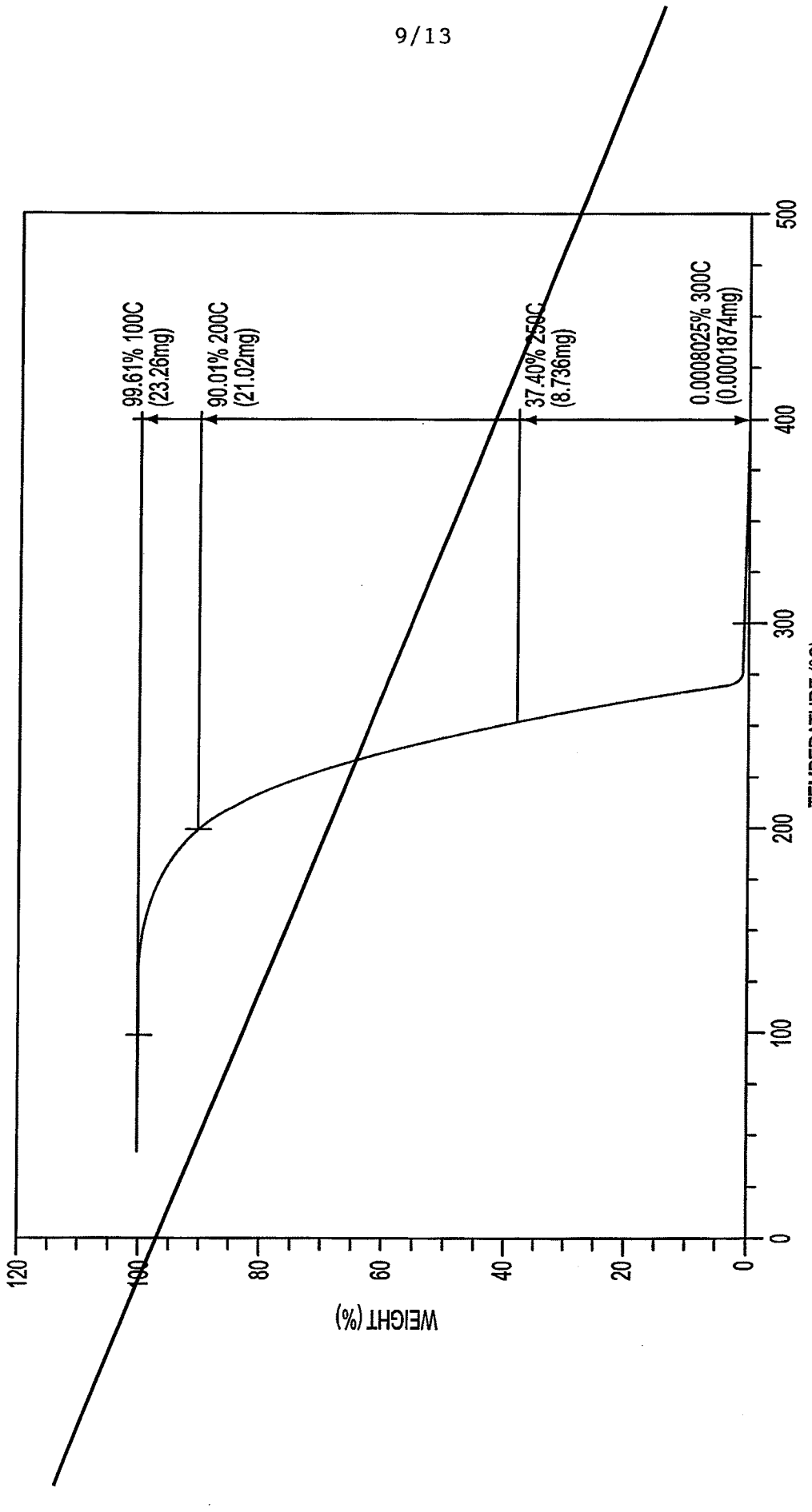

99.61% 100C
(23.26mg)
90.01% 200C
(21.02mg)
37.40% 259C
(8.736mg)
0.0008025% 300C
(0.0001874mg)
WEIGHT (%)
TEMPERATURE (°C)
120
100
80
60
40
20
0
0
100
200
300
400
500

FIG. 9

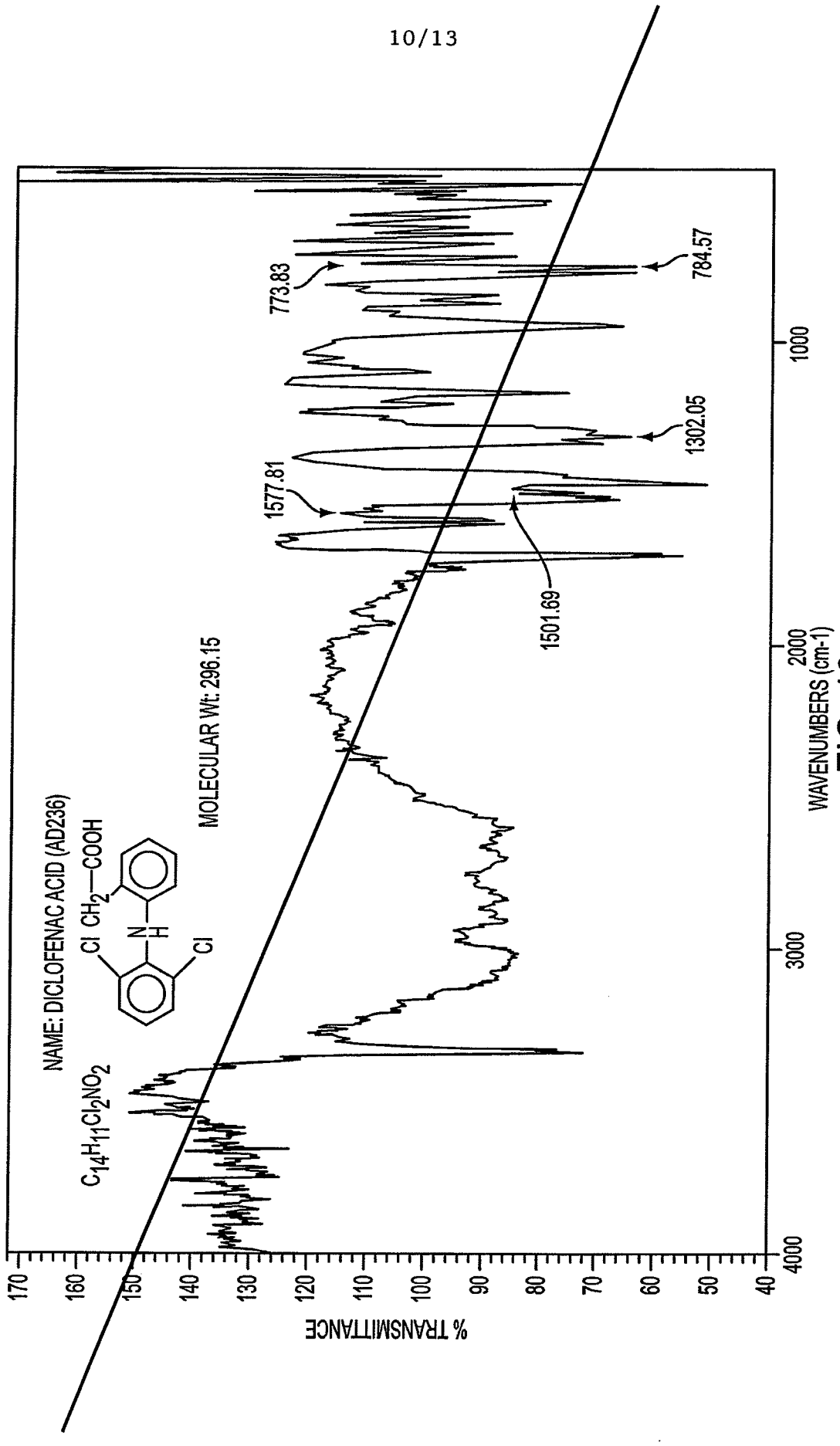

NAME: DICLOFENAC ACID (AD236)
$C_{14}H_{11}Cl_2NO_2$
MOLECULAR Wt: 296.15
773.83
784.57
1577.81
1302.05
1501.69
% TRANSMITTANCE
WAVENUMBERS (cm-1)
170
160
150
140
130
120
110
100
90
80
70
60
50
40
4000
3000
2000
1000

FIG. 10

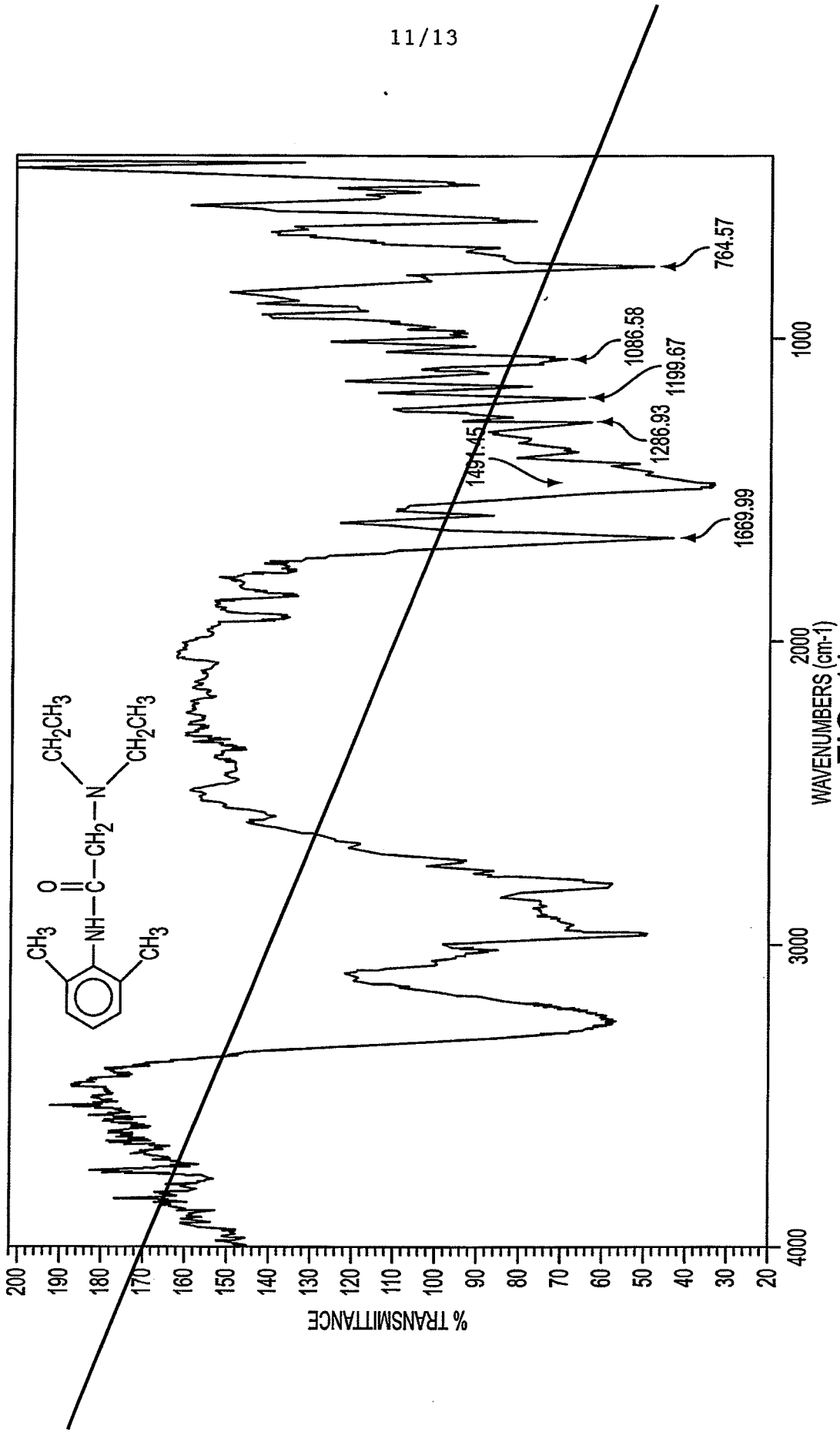

% TRANSMITTANCE
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
4000
3000
2000
1000
WAVENUMBERS (cm-1)
764.57
1086.58
1199.67
1286.93
1491.45
1669.99
CH3
NH
O
C
CH2
N
CH2CH3
CH2CH3
CH3

FIG. 11

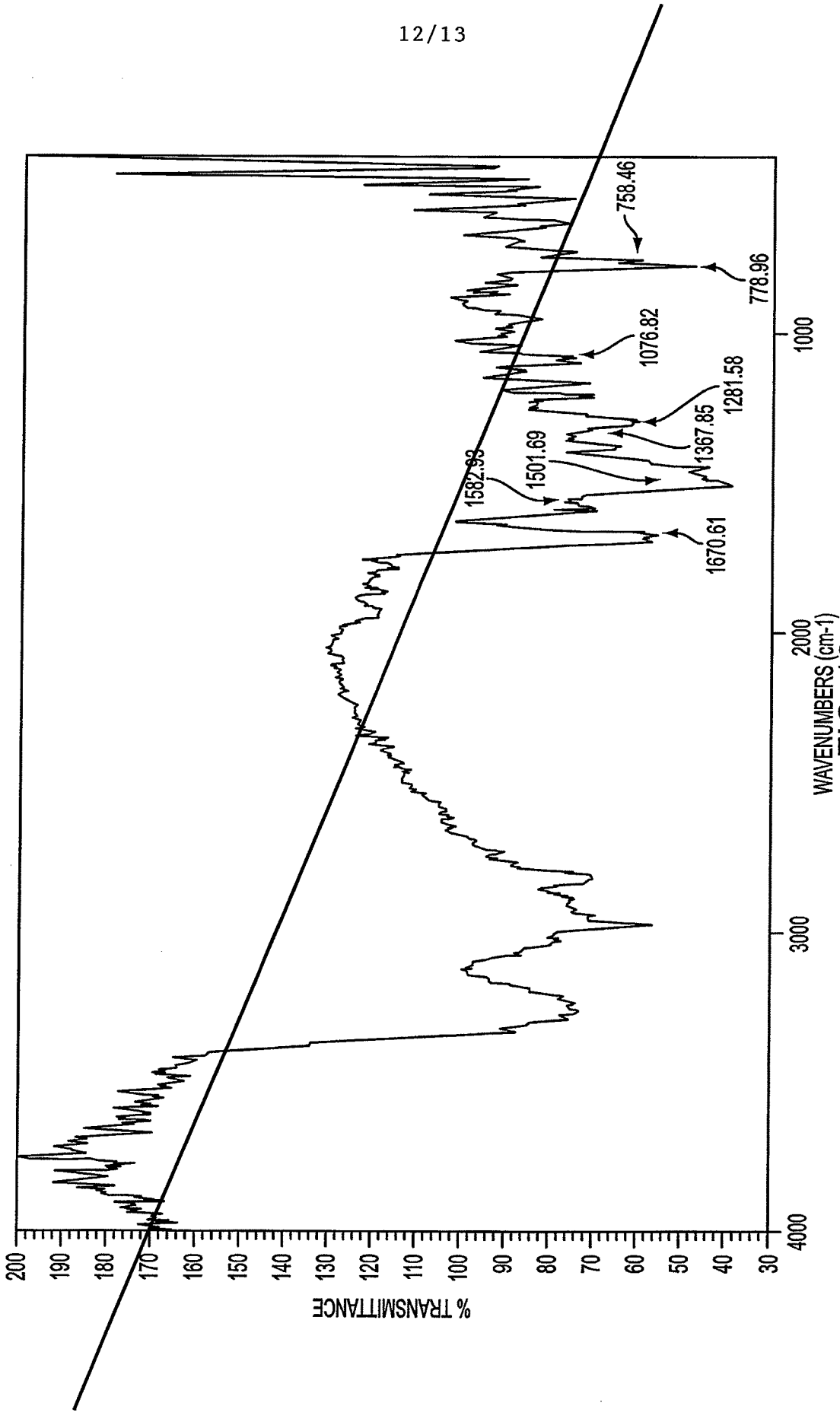

% TRANSMITTANCE
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
4000
3000
2000
1000
WAVENUMBERS (cm-1)
758.46
778.96
1076.82
1281.58
1367.85
1501.69
1582.93
1670.61

FIG. 12

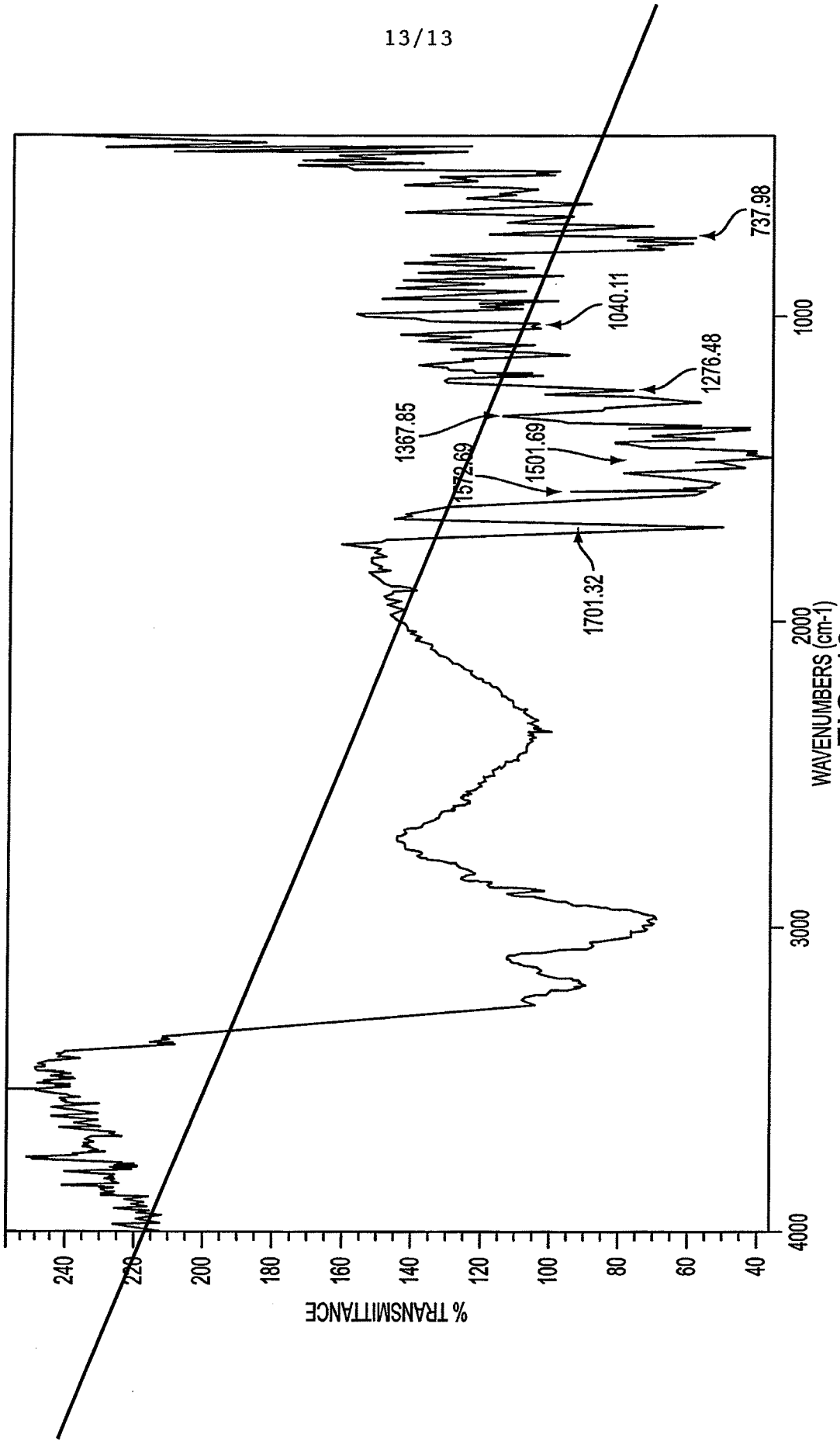

737.98
1040.11
1276.48
1367.85
1501.69
1572.69
1701.32
% TRANSMITTANCE
240
220
200
180
160
140
120
100
80
60
40
4000
3000
2000
1000
WAVENUMBERS (cm-1)

FIG. 13

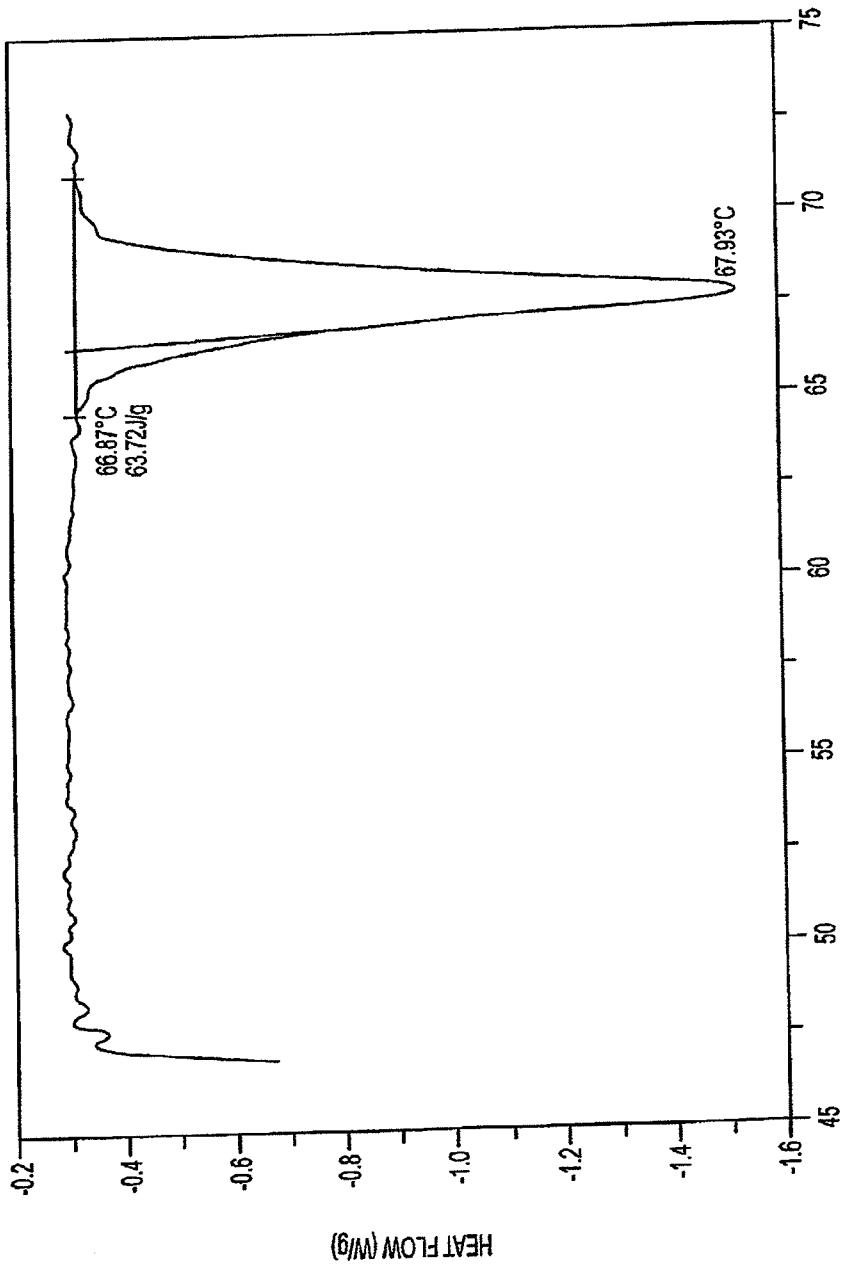

66.87°C
63.72J/g
67.93°C
HEAT FLOW (W/g)
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
-1.4
-1.6
TEMPERATURE (°C)
45
50
55
60
65
70
75

FIG. 1

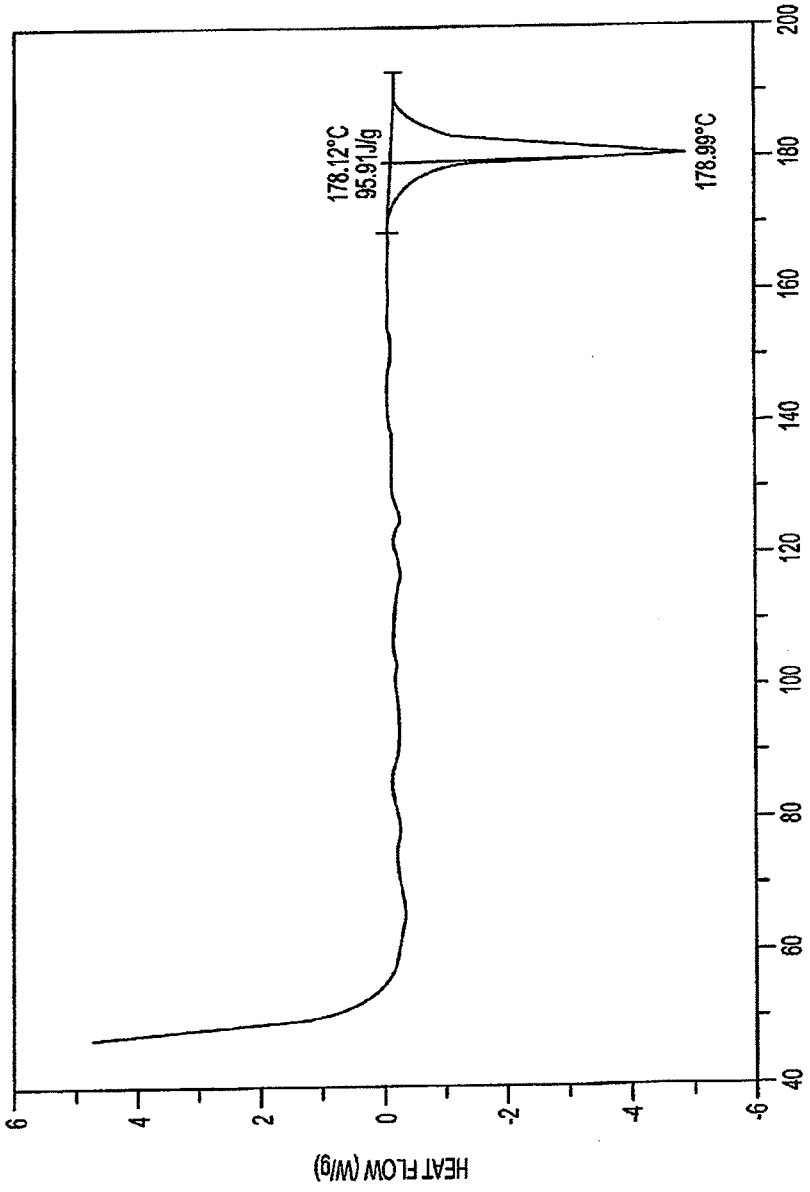

178.12°C
95.91J/g
178.99°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
6
4
2
0
-2
-4
-6
40
60
80
100
120
140
160
180
200

FIG. 2

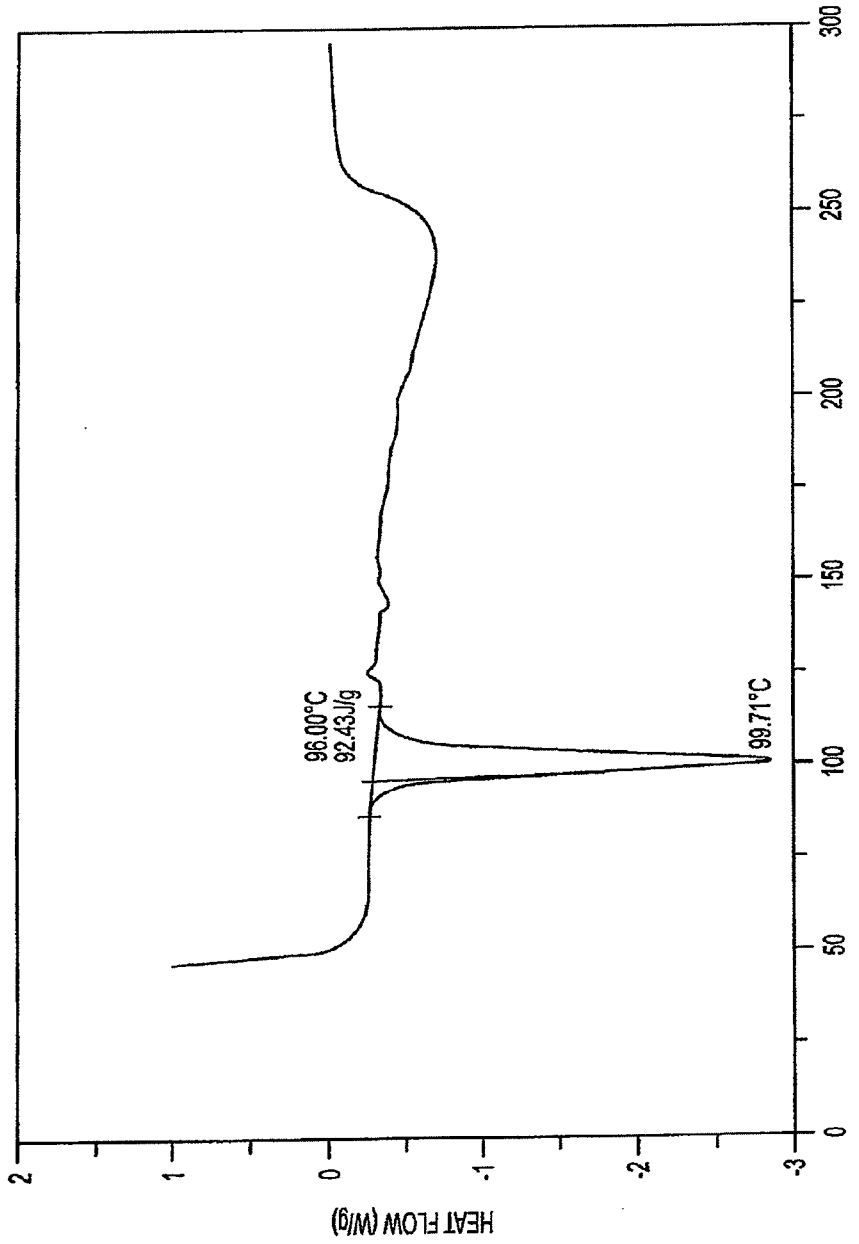

96.00°C
92.43J/g
99.71°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
2
1
0
-1
-2
-3
0
50
100
150
200
250
300

FIG. 3

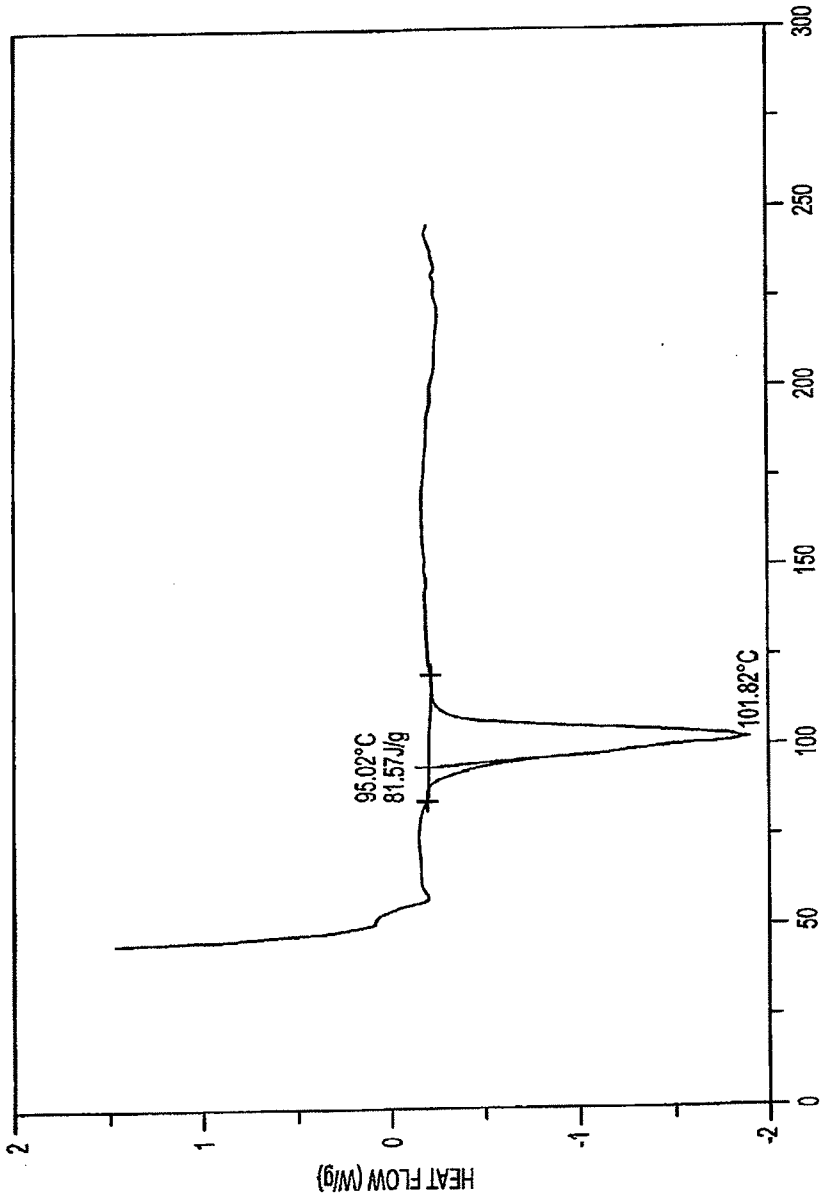

95.02°C
81.57J/g
101.82°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
2
1
0
-1
-2
0
50
100
150
200
250
300

FIG. 4

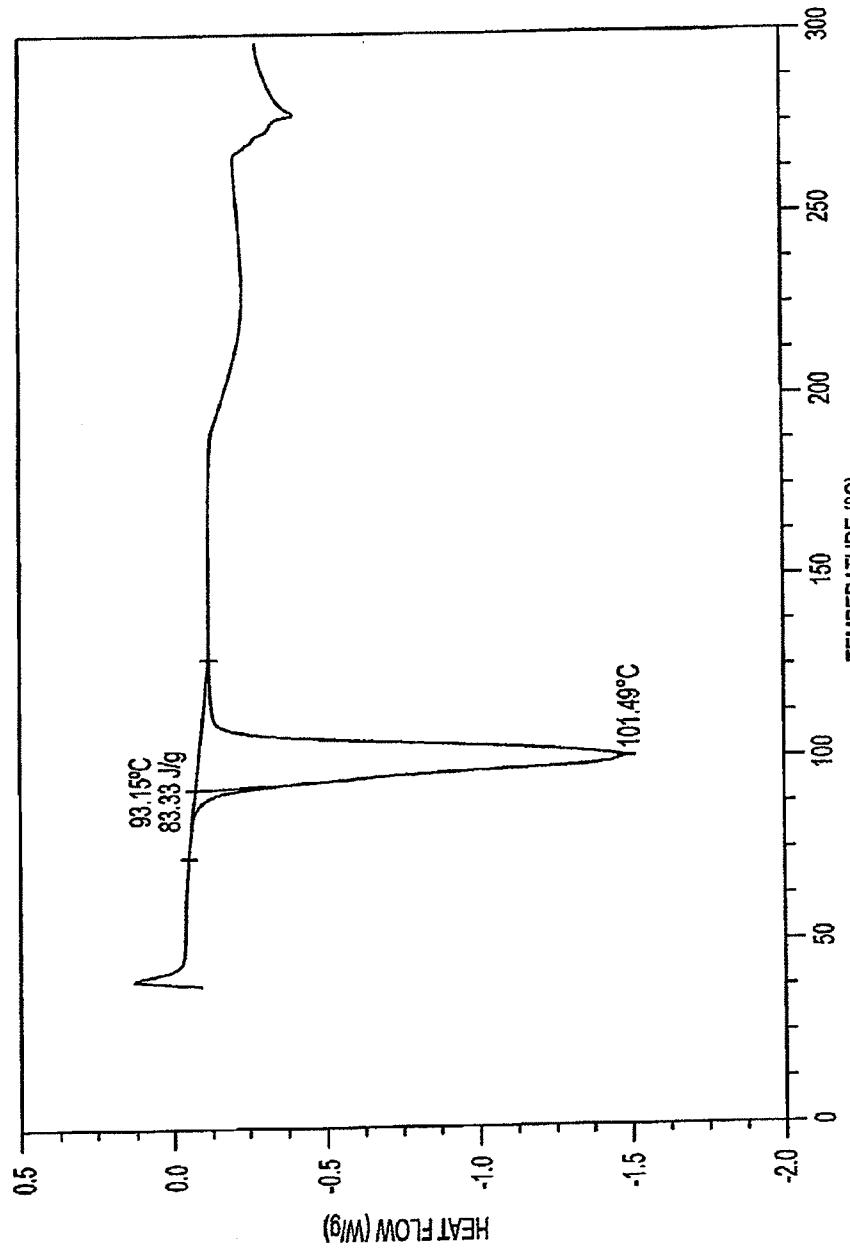

93.15°C
83.33 J/g
101.49°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
0.5
0.0
-0.5
-1.0
-1.5
-2.0
0
50
100
150
200
250
300

FIG. 5

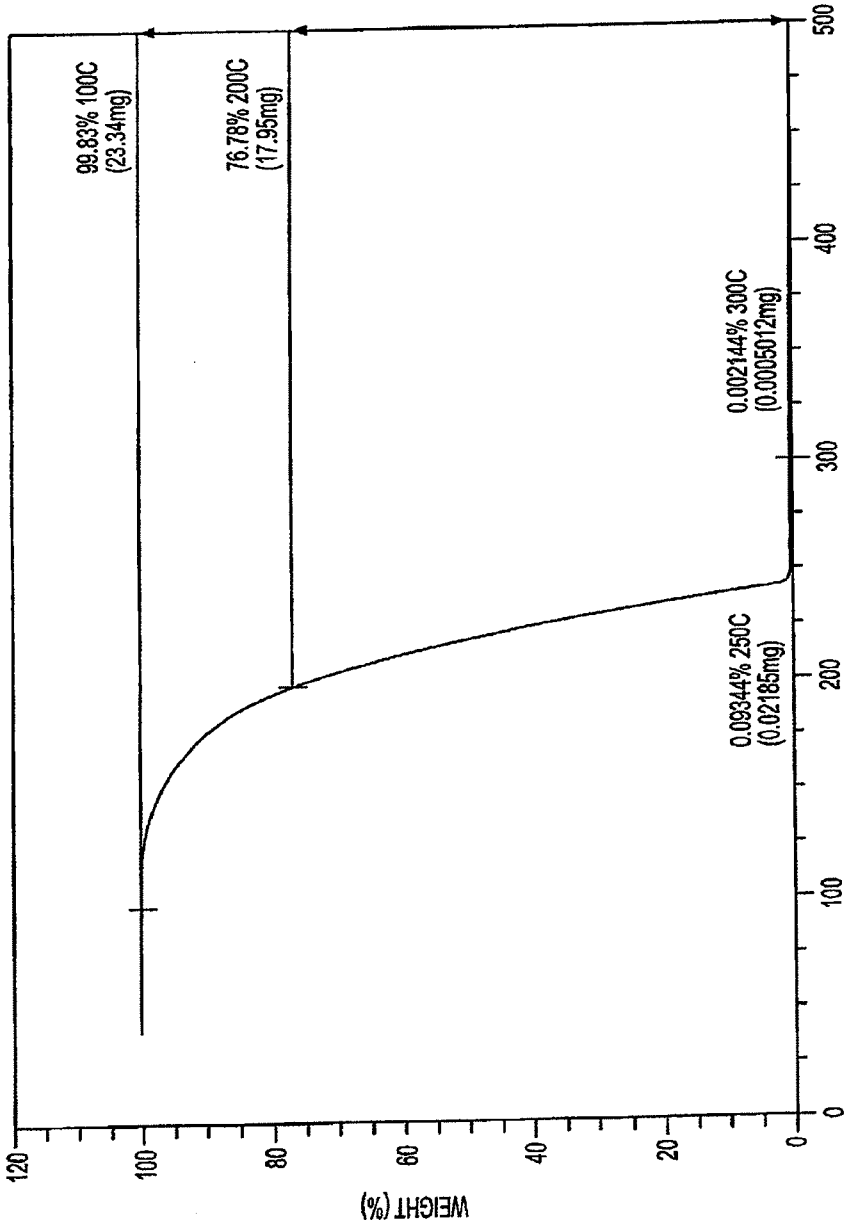

99.83% 100C
(23.34mg)
76.78% 200C
(17.95mg)
0.002144% 300C
(0.00050012mg)
0.09344% 250C
(0.02185mg)
WEIGHT (%)
TEMPERATURE (°C)
120
100
80
60
40
20
0
0
100
200
300
400
500

FIG. 6

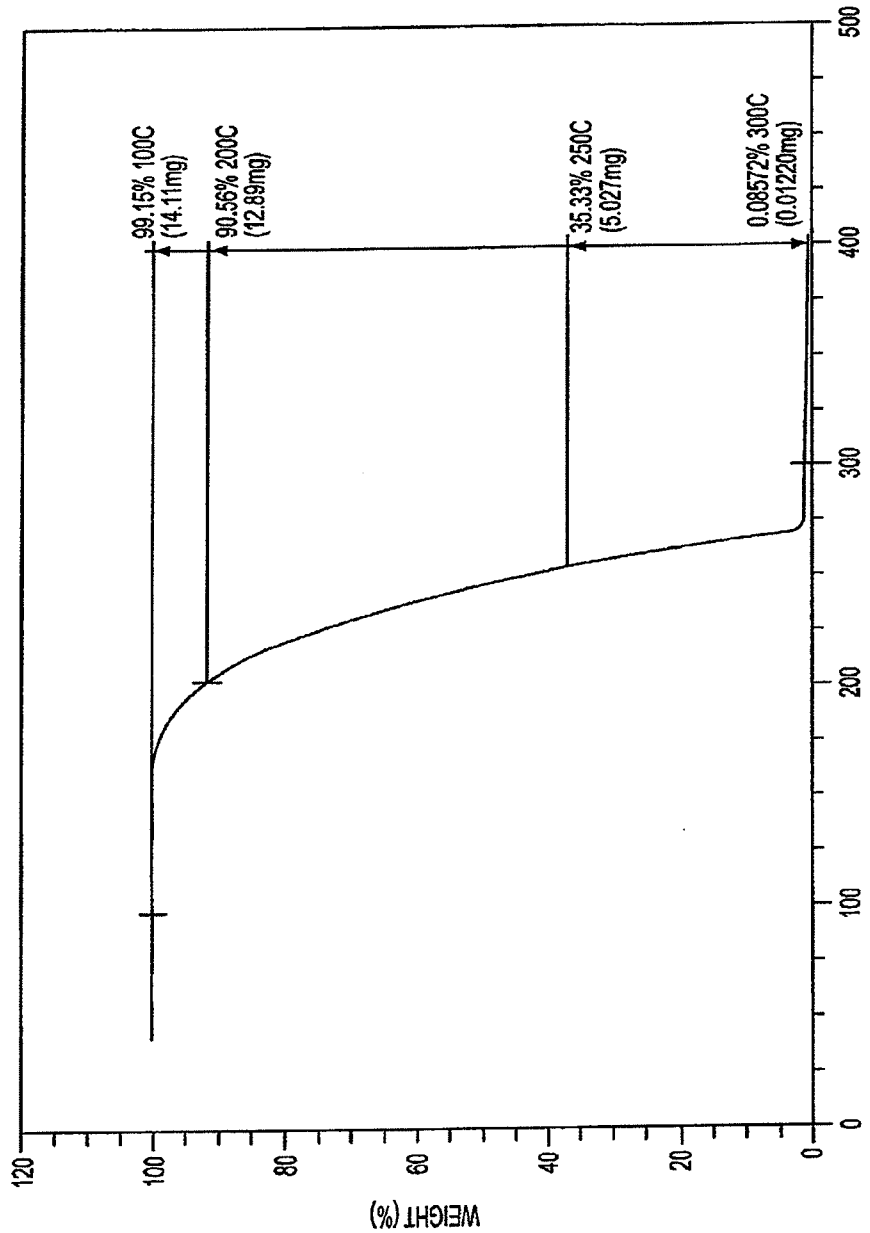

99.15% 100C
(14.11mg)
90.56% 200C
(12.89mg)
35.33% 250C
(5.027mg)
0.08572% 300C
(0.01220mg)
WEIGHT (%)
TEMPERATURE (°C)
120
100
80
60
40
20
0
0
100
200
300
400
500

FIG. 7

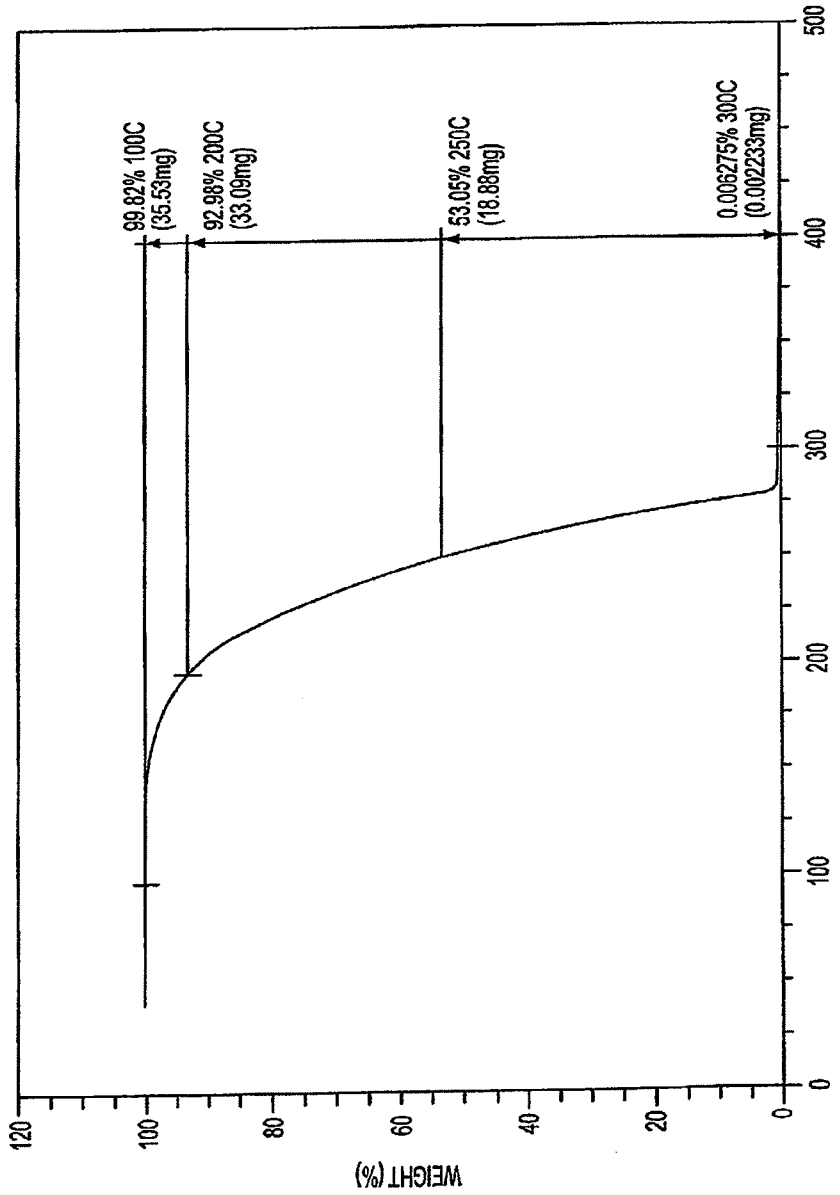

99.82% 100C
(35.53mg)
92.98% 200C
(33.09mg)
53.05% 250C
(18.88mg)
0.006275% 300C
(0.002233mg)
WEIGHT (%)
120
100
80
60
40
20
0
0
100
200
300
400
500
TEMPERATURE (°C)

FIG. 8

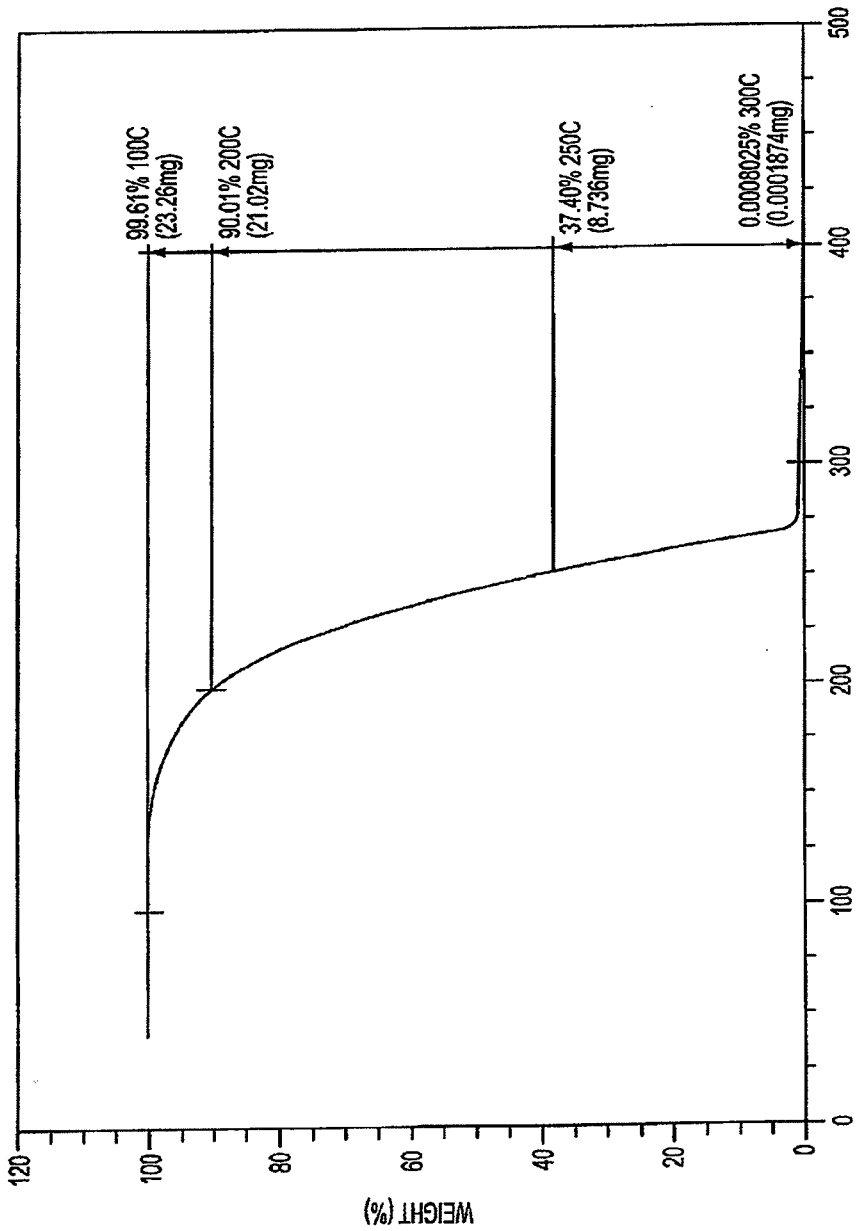

99.61% 100C
(23.26mg)
90.01% 200C
(21.02mg)
37.40% 250C
(8.736mg)
0.0008025% 300C
(0.0001874mg)
WEIGHT (%)
TEMPERATURE (°C)
120
100
80
60
40
20
0
0
100
200
300
400
500

FIG. 9

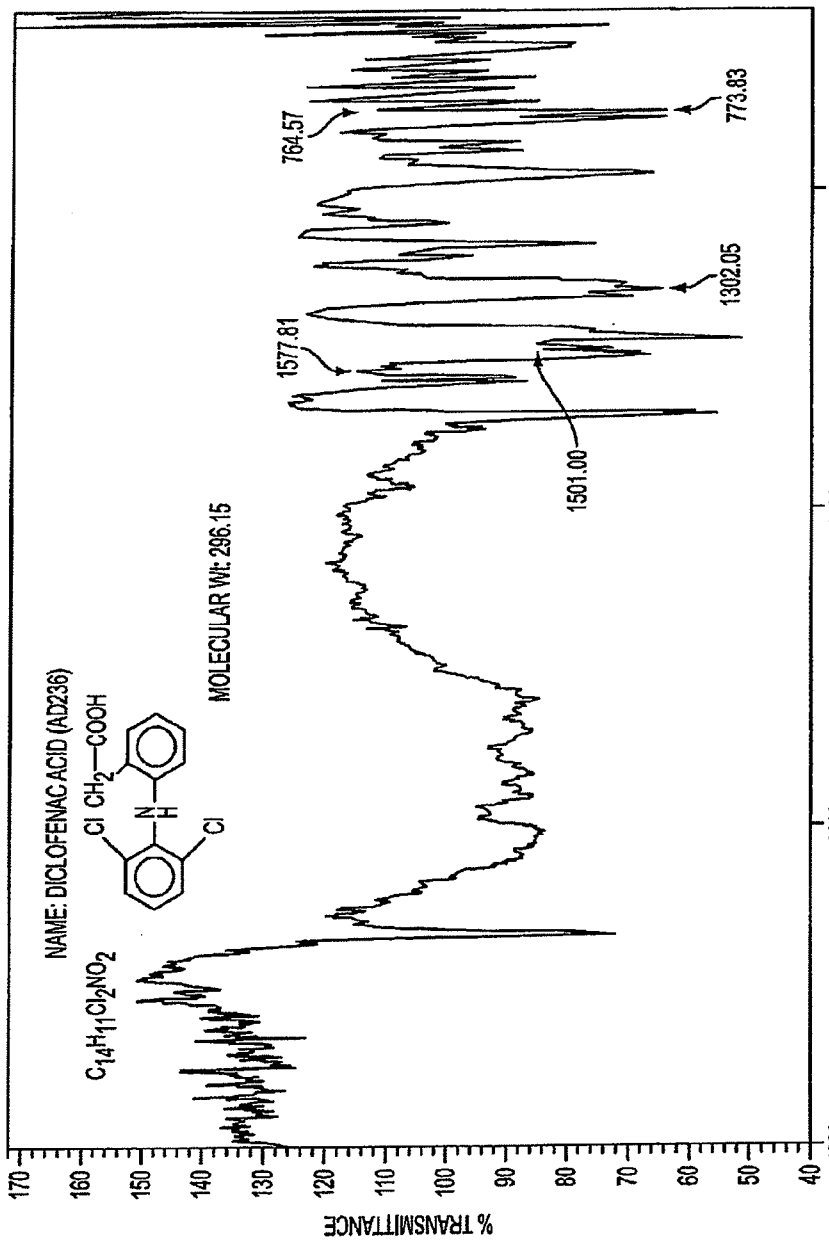

NAME: DICLOFENAC ACID (AD236)
$C_{14}H_{11}Cl_2NO_2$
MOLECULAR Wt: 296.15
764.57
773.83
1577.81
1302.05
1501.00
% TRANSMITTANCE
WAVENUMBERS (cm-1)

FIG. 10

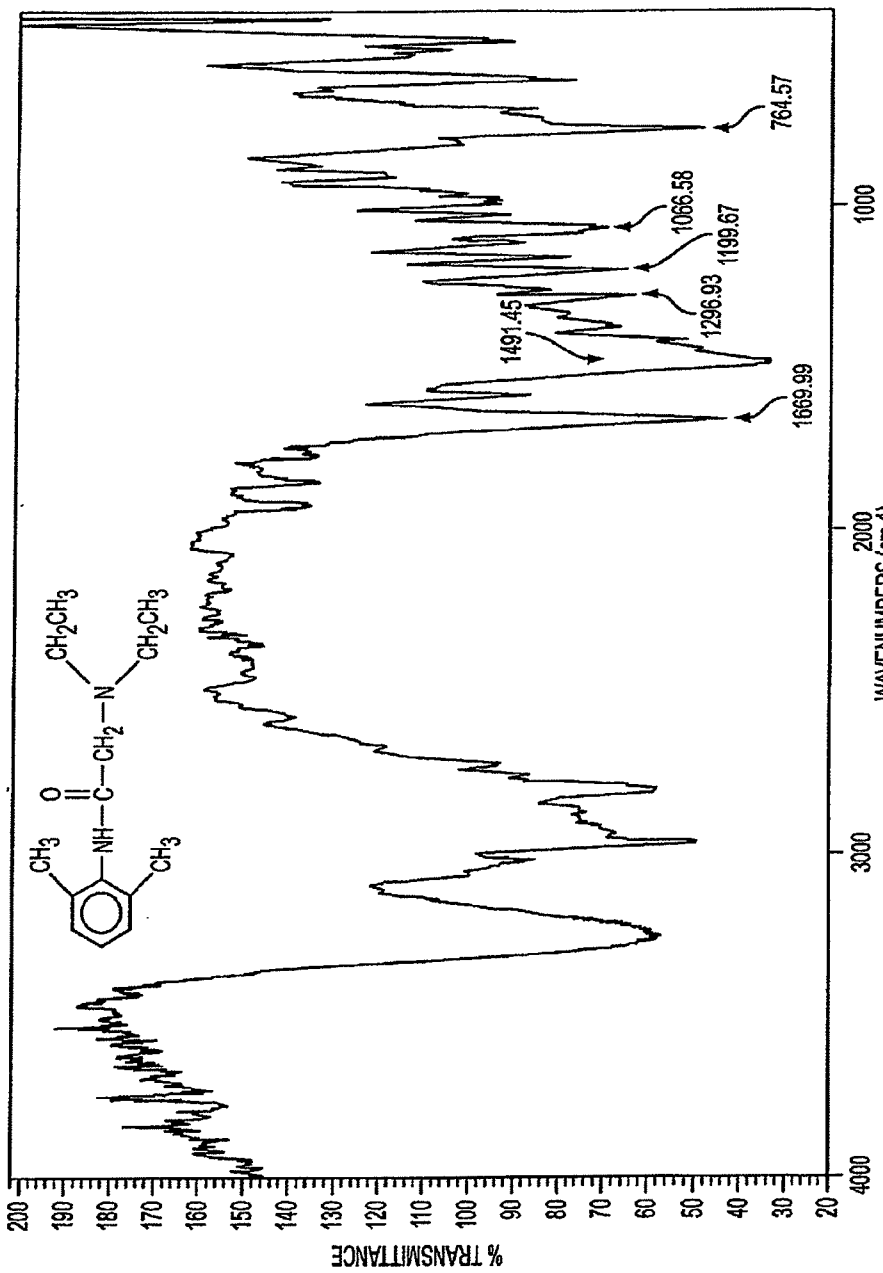

% TRANSMITTANCE
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
4000
3000
2000
1000
WAVENUMBERS (cm-1)
764.57
1066.58
1199.67
1296.93
1491.45
1669.99
CH3
NH
C
O
CH2
N
CH2CH3
CH2CH3
CH3

FIG. 11

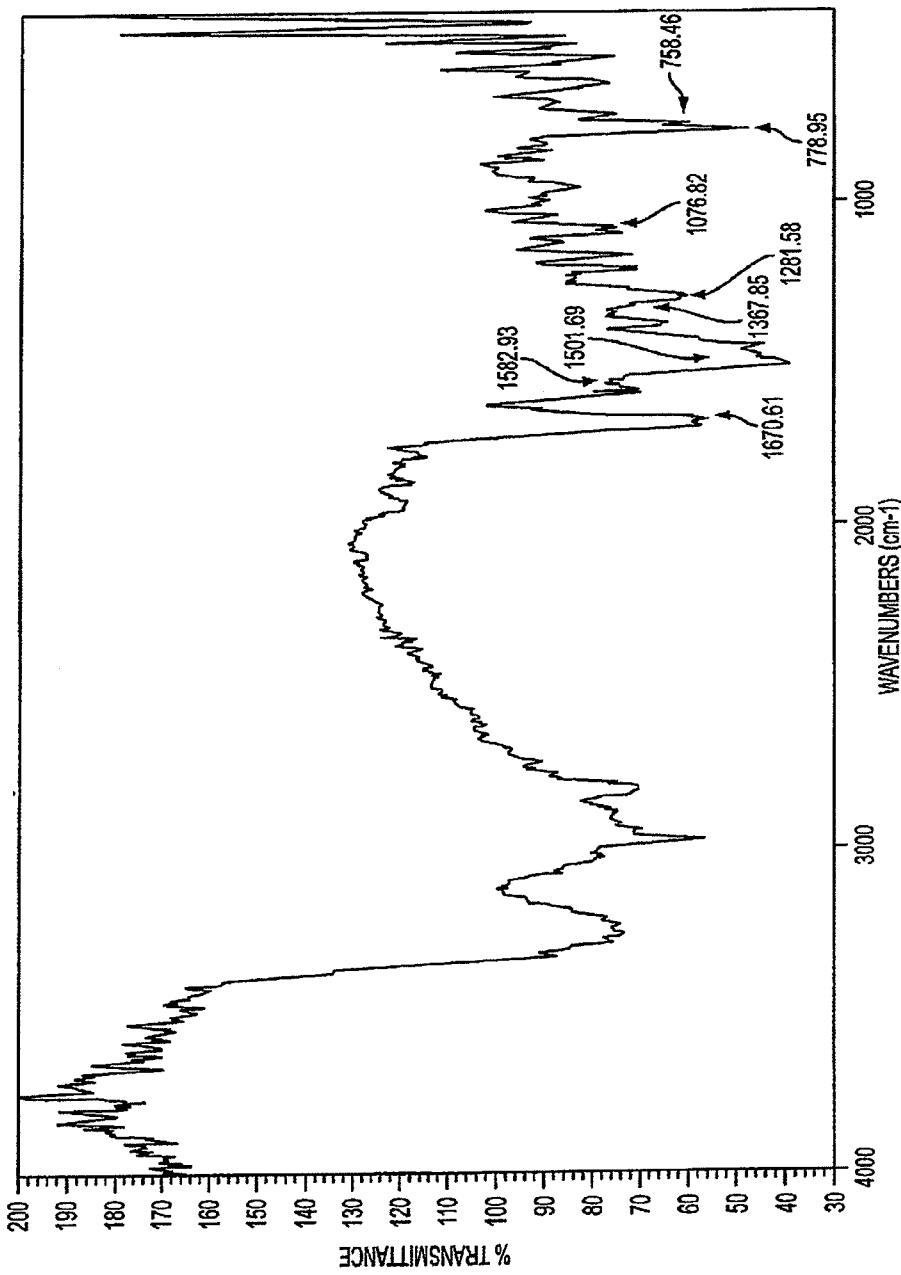

758.46
778.95
1076.82
1281.58
1367.85
1501.69
1582.93
1670.61
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
4000
3000
2000
1000
% TRANSMITTANCE
WAVENUMBERS (cm-1)

FIG. 12

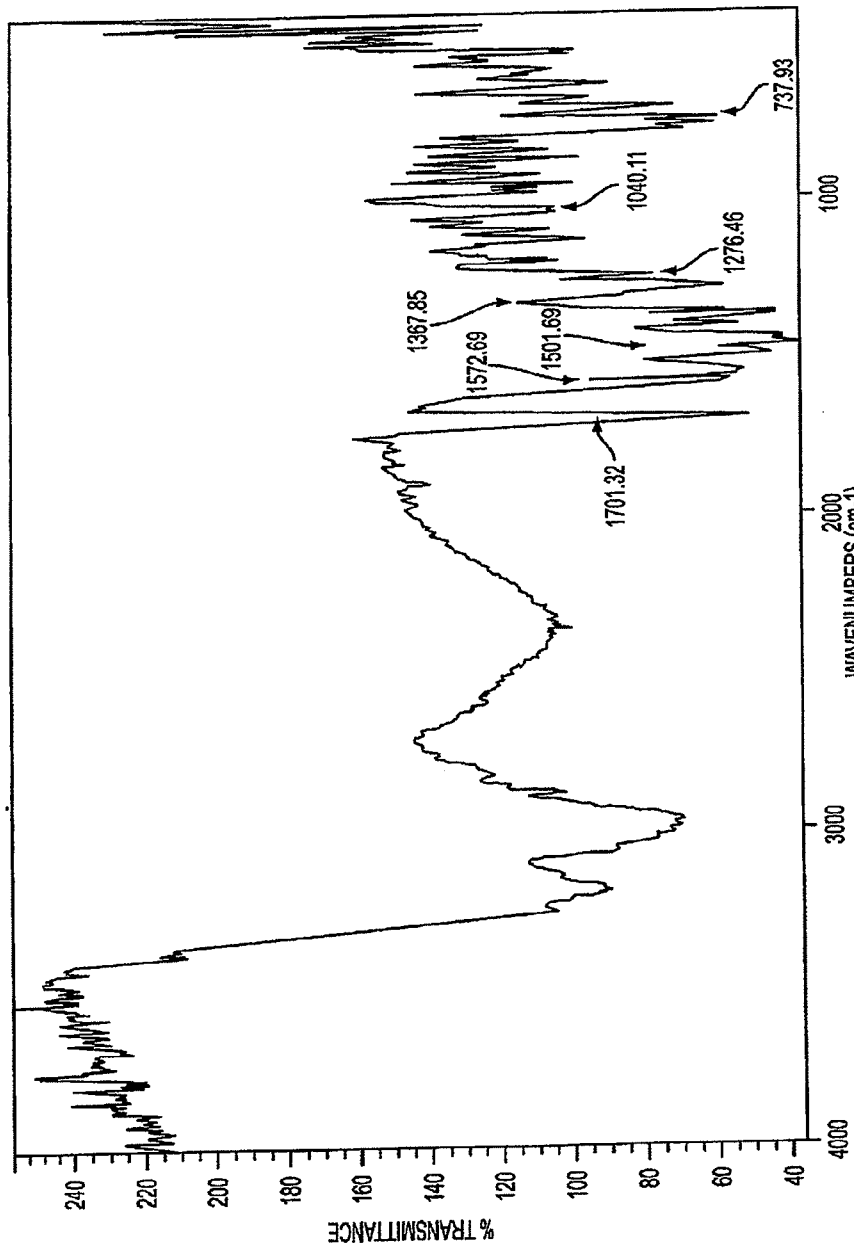

737.93
1040.11
1276.46
1367.85
1501.69
1572.69
1701.32
4000
3000
2000
1000
WAVENUMBERS (cm-1)
240
220
200
180
160
140
120
100
80
60
40
% TRANSMITTANCE

FIG. 13