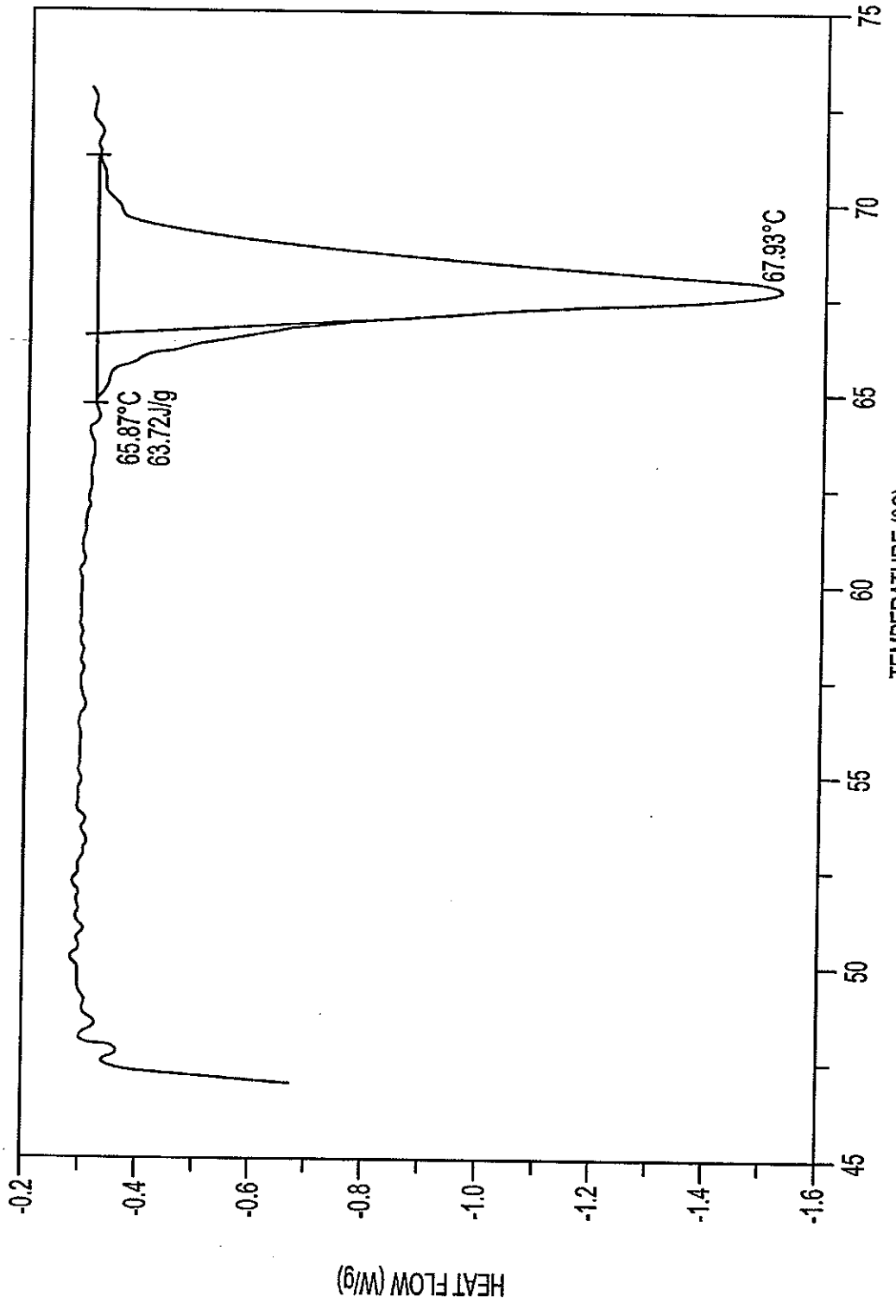

HEAT FLOW (W/g)
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
-1.4
-1.6
45
50
55
60
65
70
75
TEMPERATURE (°C)
65.87°C
63.72J/g
67.93°C

FIG. 1

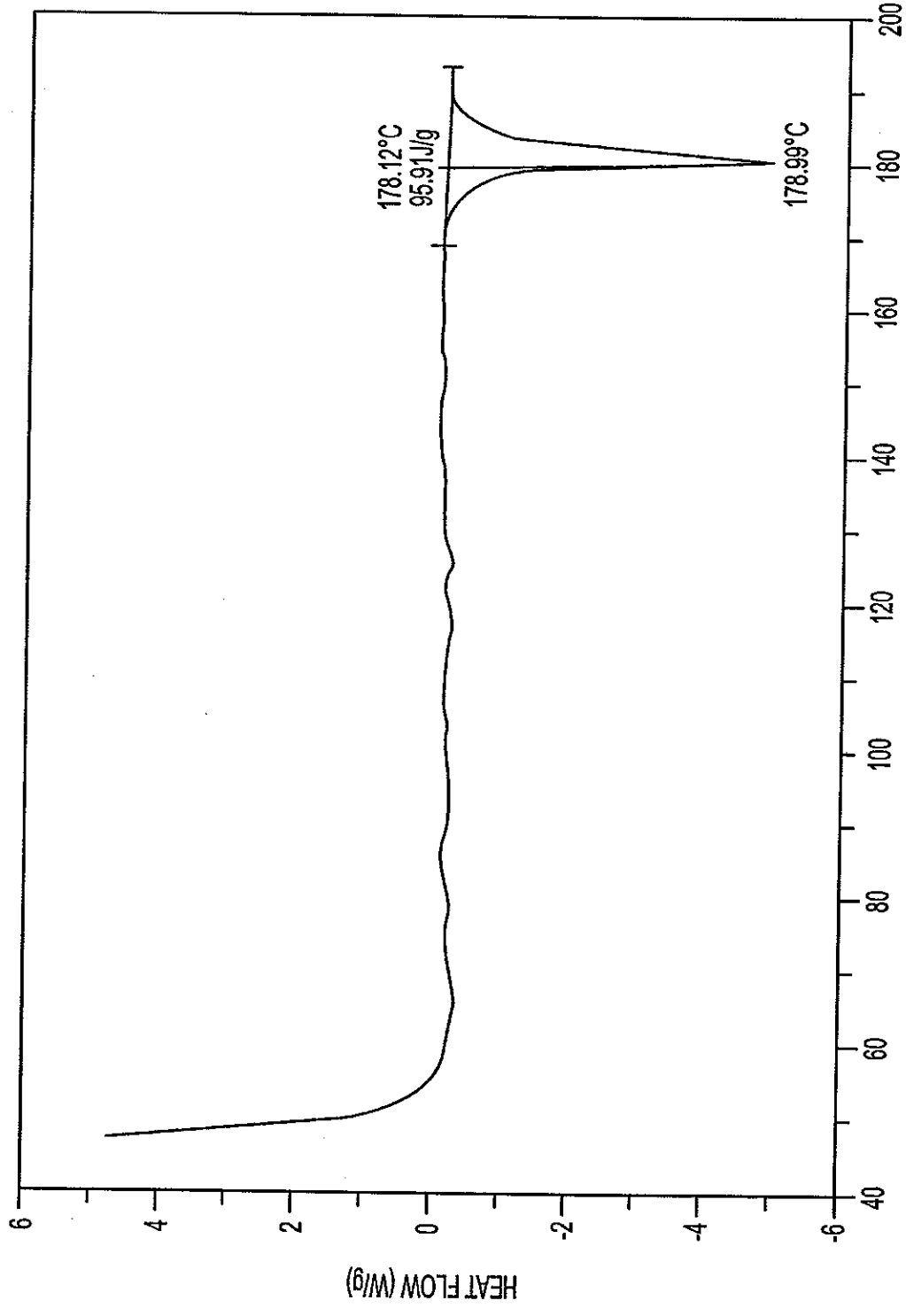

178.12°C
95.91J/g
178.99°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
6
4
2
0
-2
-4
-6
40
60
80
100
120
140
160
180
200

FIG. 2

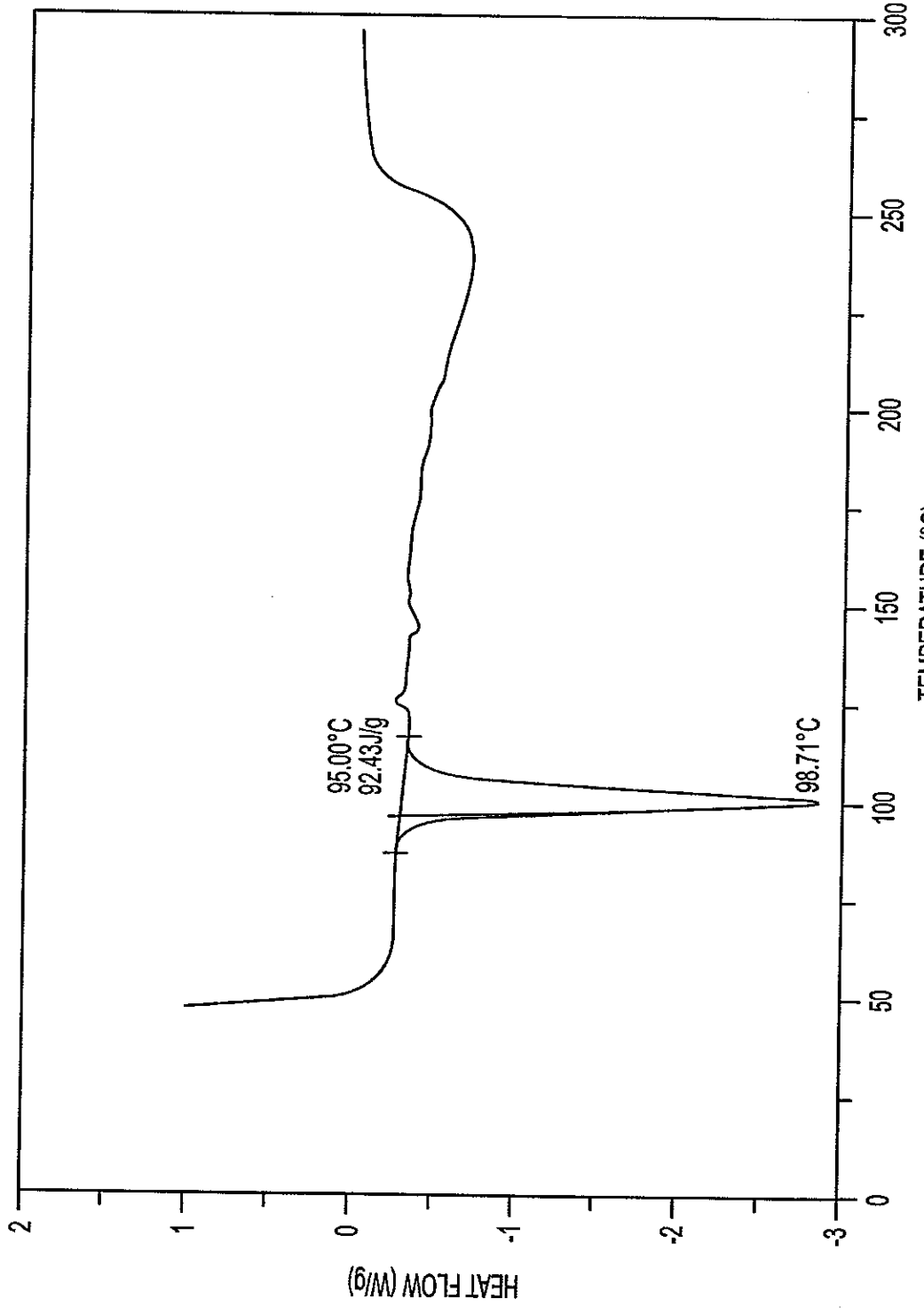

95.00°C
92.43J/g
98.71°C
HEAT FLOW (W/g)
TEMPERATURE (°C)
2
1
0
-1
-2
-3
0
50
100
150
200
250
300

FIG. 3

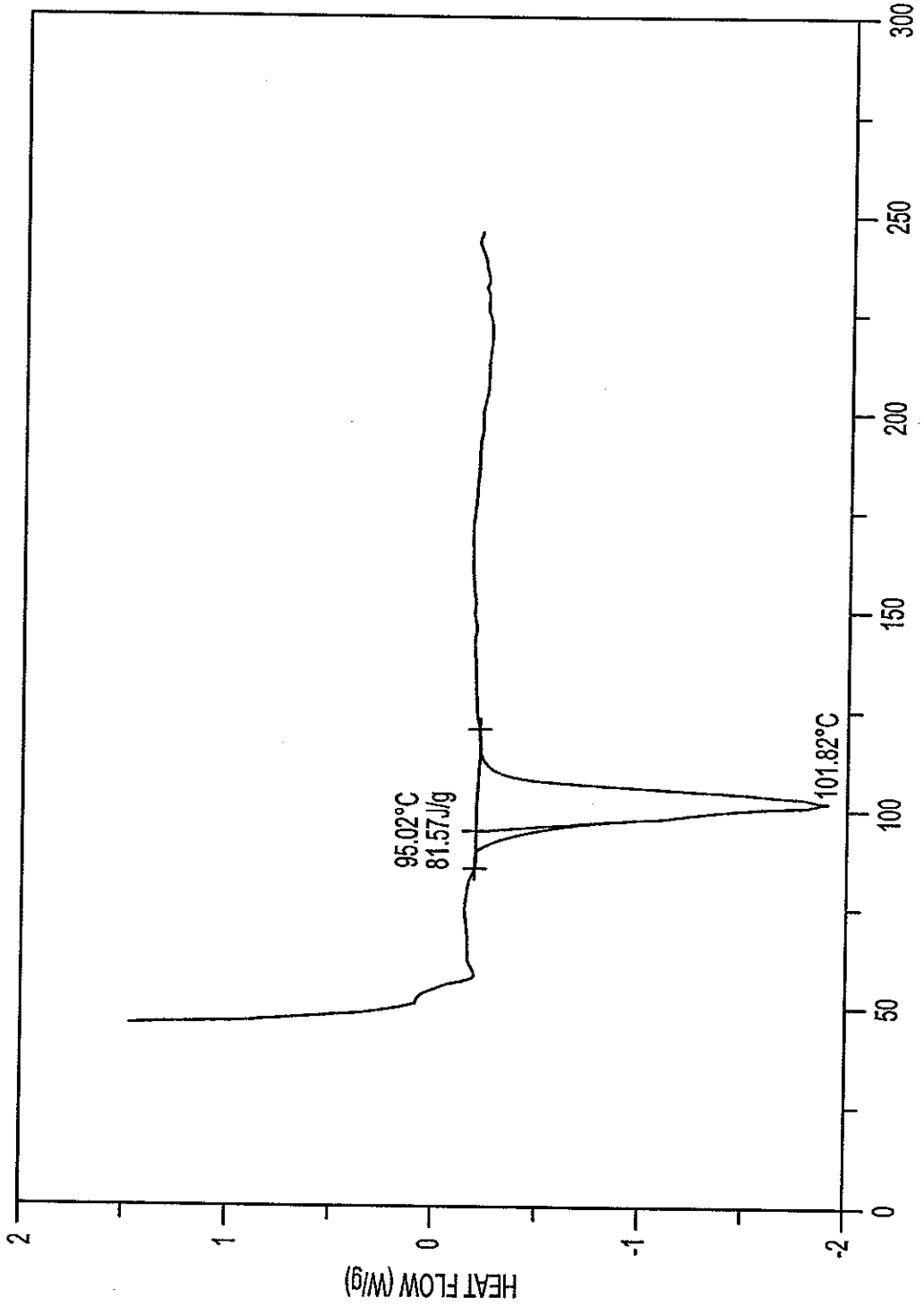

HEAT FLOW (W/g)
2
1
0
-1
-2
0
50
100
150
200
250
300
TEMPERATURE (°C)
95.02°C
81.57J/g
101.82°C

FIG. 4

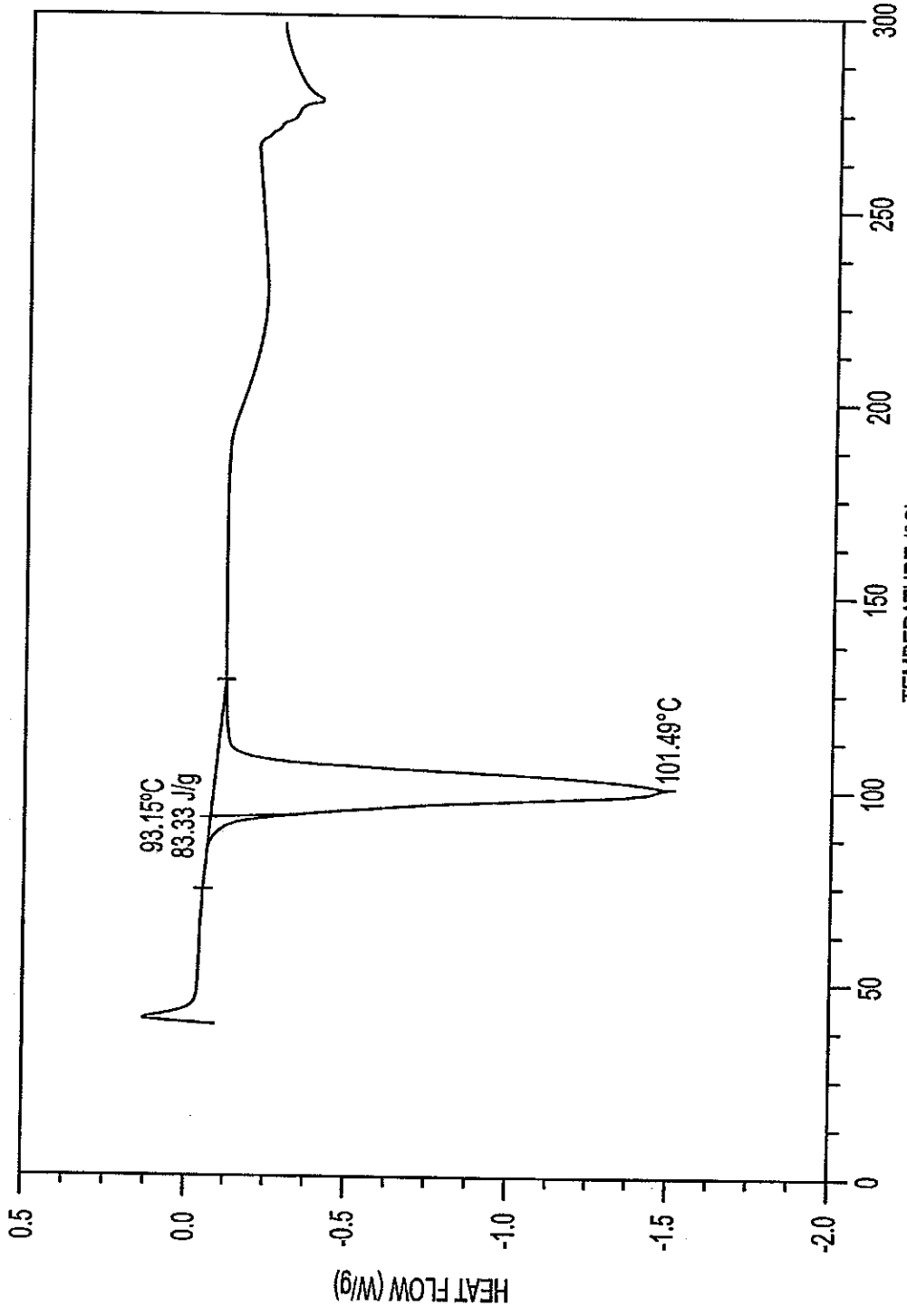

HEAT FLOW (W/g)
0.5
0.0
-0.5
-1.0
-1.5
-2.0
0
50
100
150
200
250
300
TEMPERATURE (°C)
93.15°C
83.33 J/g
101.49°C

FIG. 5

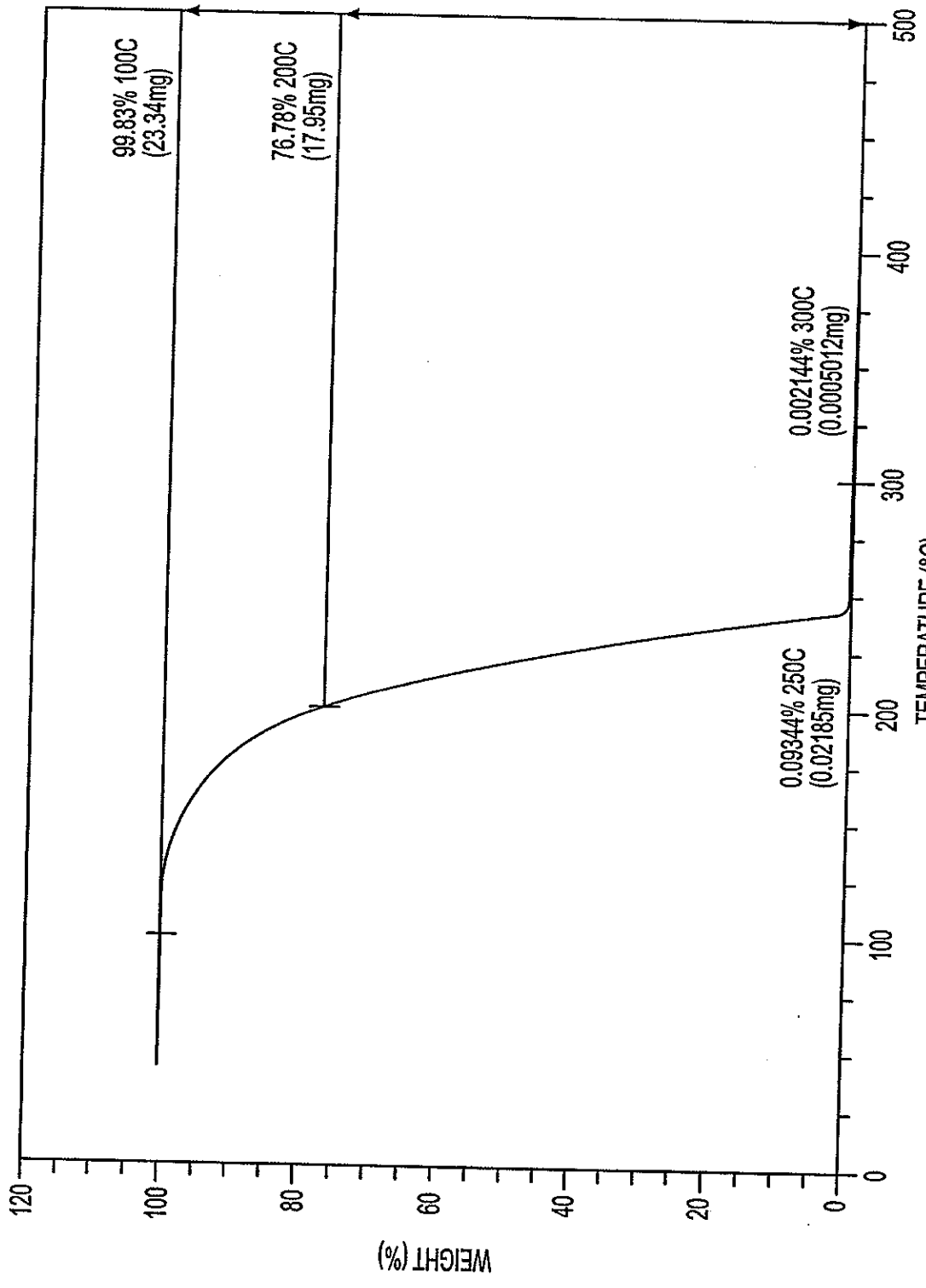

99.83% 100C
(23.34mg)
76.78% 200C
(17.95mg)
0.09344% 250C
(0.02185mg)
0.002144% 300C
(0.0005012mg)
WEIGHT (%)
TEMPERATURE (°C)
120
100
80
60
40
20
0
0
100
200
300
400
500

FIG. 6

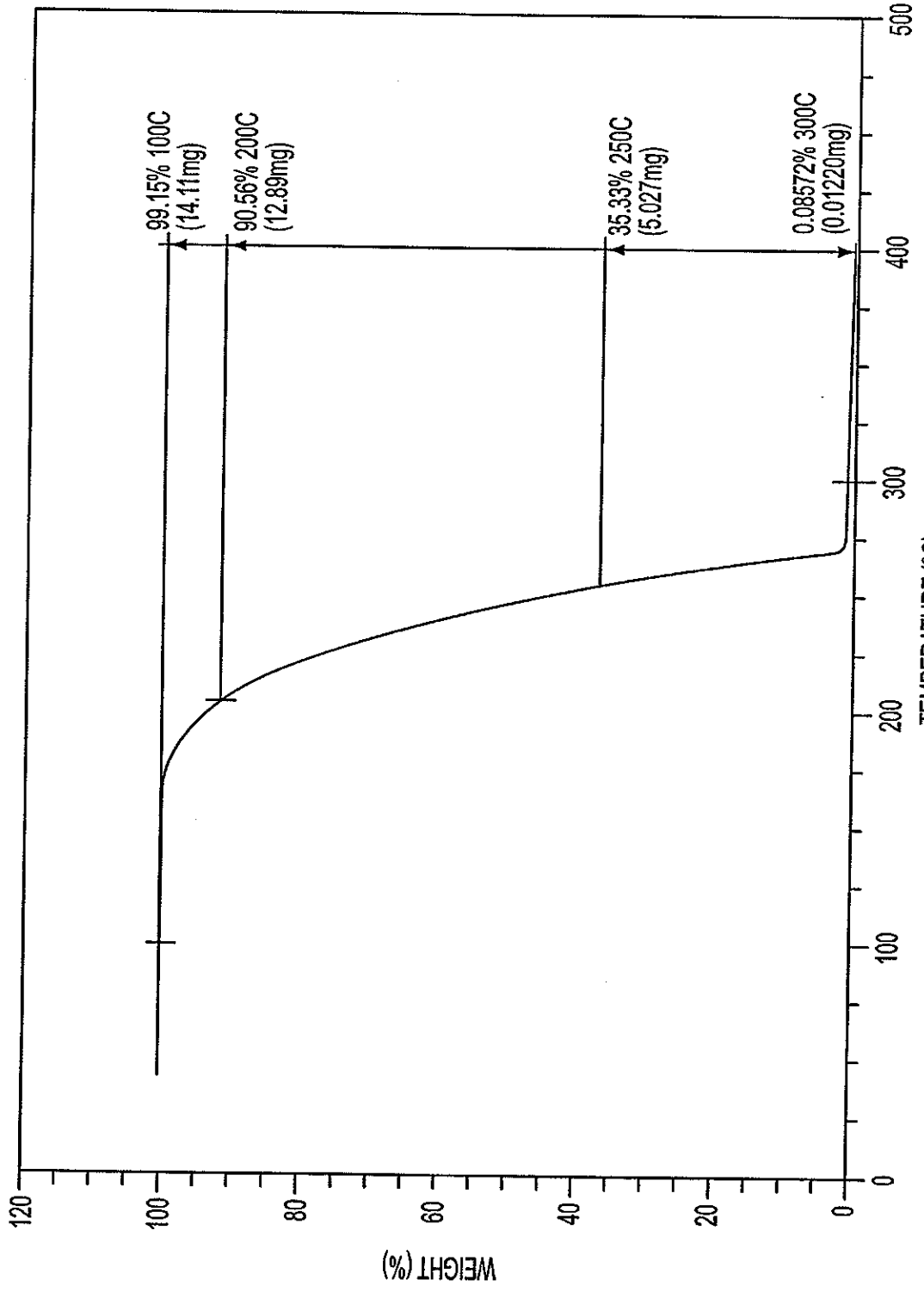

99.15% 100C
(14.11mg)
90.56% 200C
(12.89mg)
35.33% 250C
(5.027mg)
0.08572% 300C
(0.01220mg)
WEIGHT (%)
TEMPERATURE (°C)
120
100
80
60
40
20
0
0
100
200
300
400
500

FIG. 7

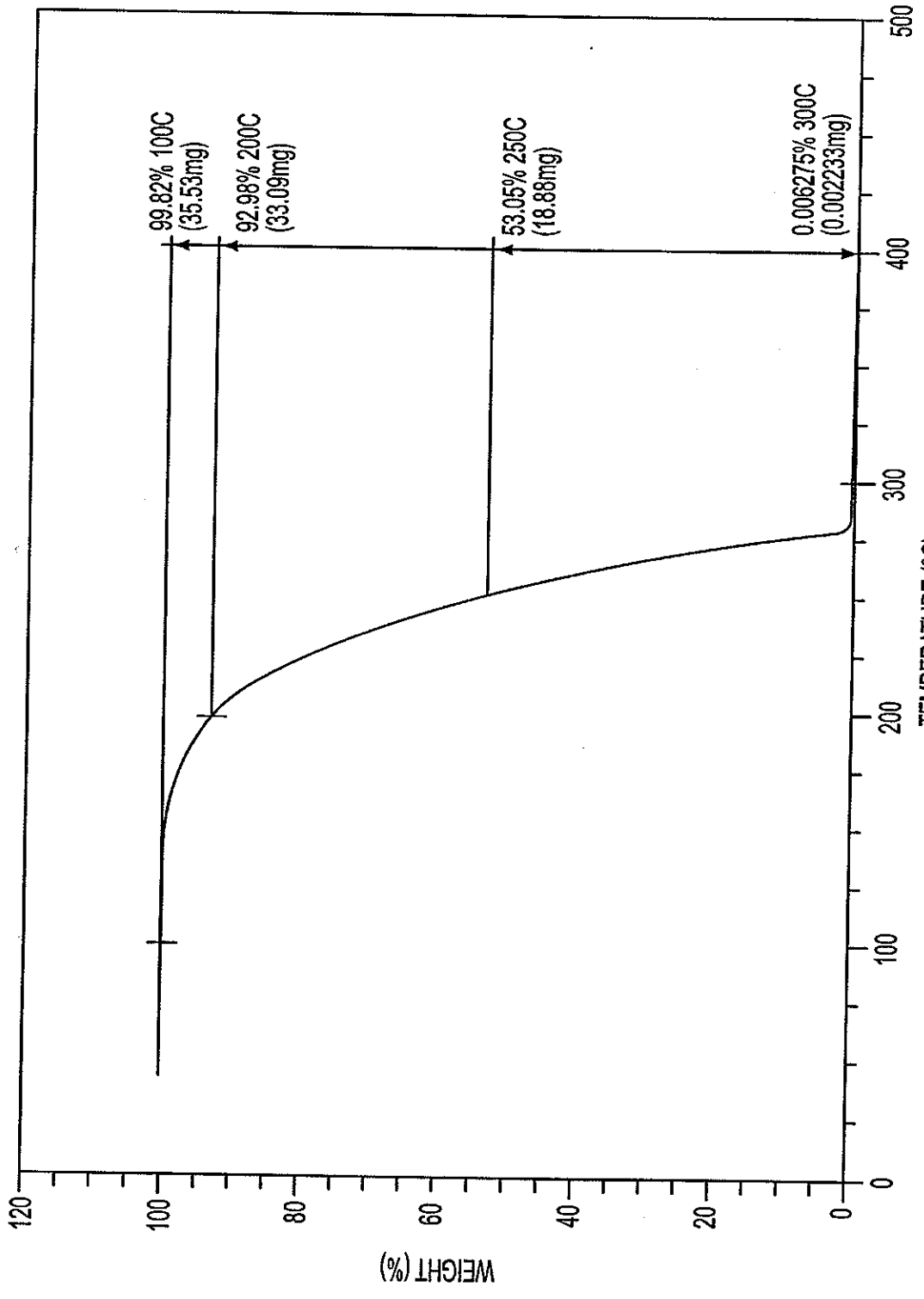

99.82% 100C
(35.53mg)
92.98% 200C
(33.09mg)
53.05% 250C
(18.88mg)
0.006275% 300C
(0.002233mg)
WEIGHT (%)
TEMPERATURE (°C)
0
20
40
60
80
100
120
0
100
200
300
400
500

FIG. 8

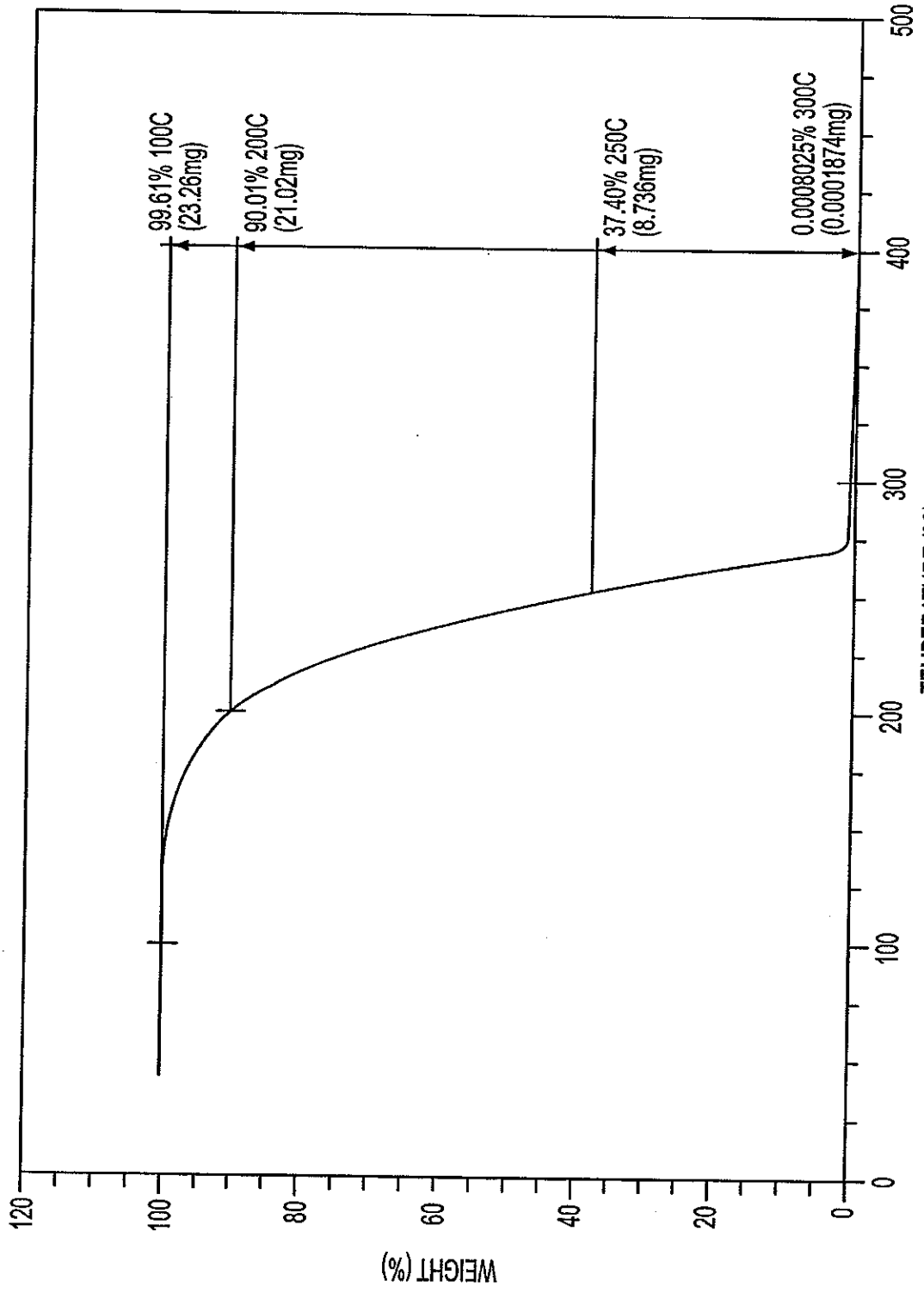

99.61% 100C
(23.26mg)
90.01% 200C
(21.02mg)
37.40% 250C
(8.736mg)
0.0008025% 300C
(0.0001874mg)
WEIGHT (%)
TEMPERATURE (°C)
0
20
40
60
80
100
120
0
100
200
300
400
500

FIG. 9

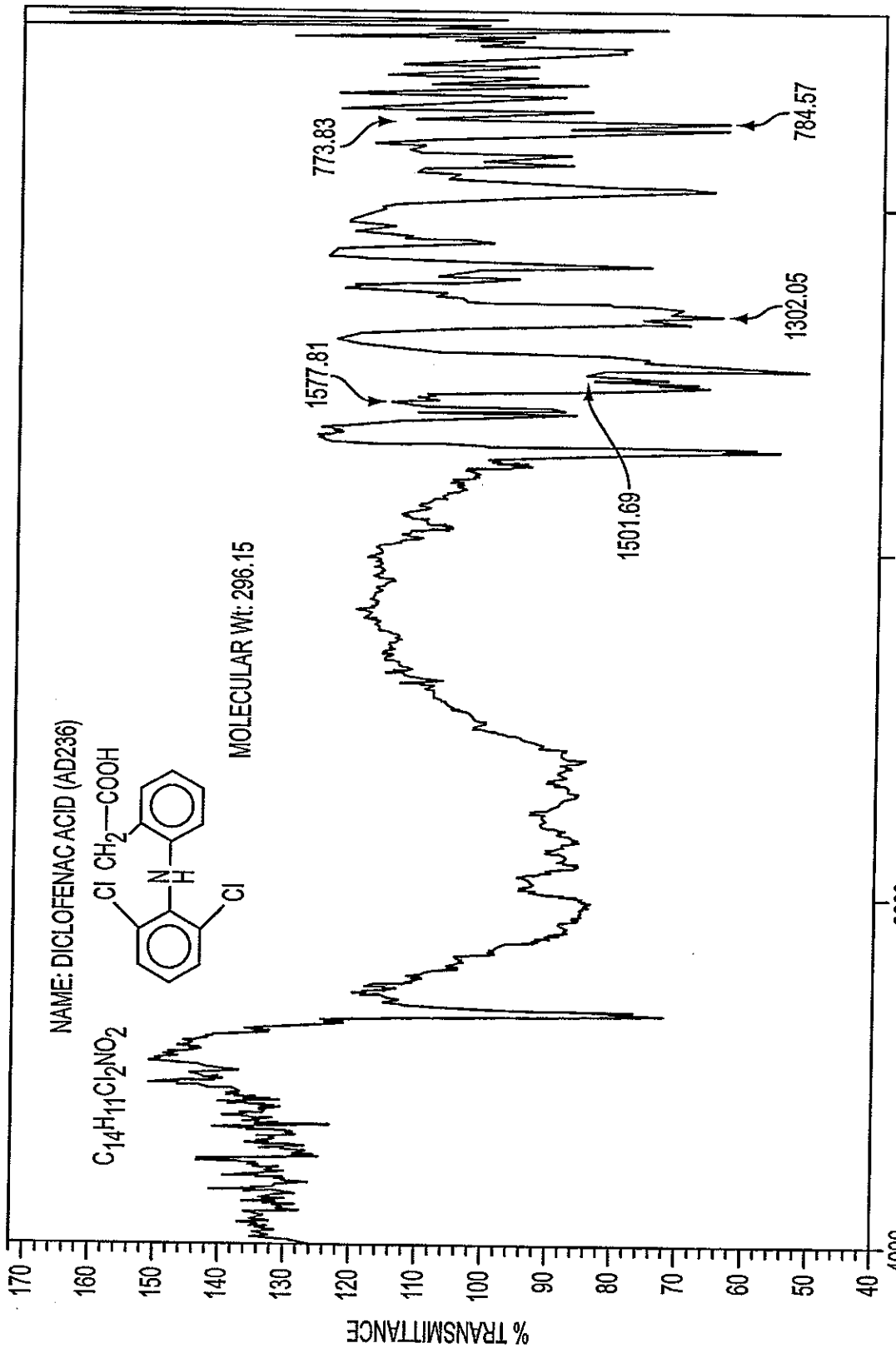

NAME: DICLOFENAC ACID (AD236)
$C_{14}H_{11}Cl_2NO_2$
MOLECULAR Wt: 296.15
773.83
784.57
1577.81
1302.05
1501.69
% TRANSMITTANCE
WAVENUMBERS (cm-1)
170
160
150
140
130
120
110
100
90
80
70
60
50
40
4000
3000
2000
1000

FIG. 10

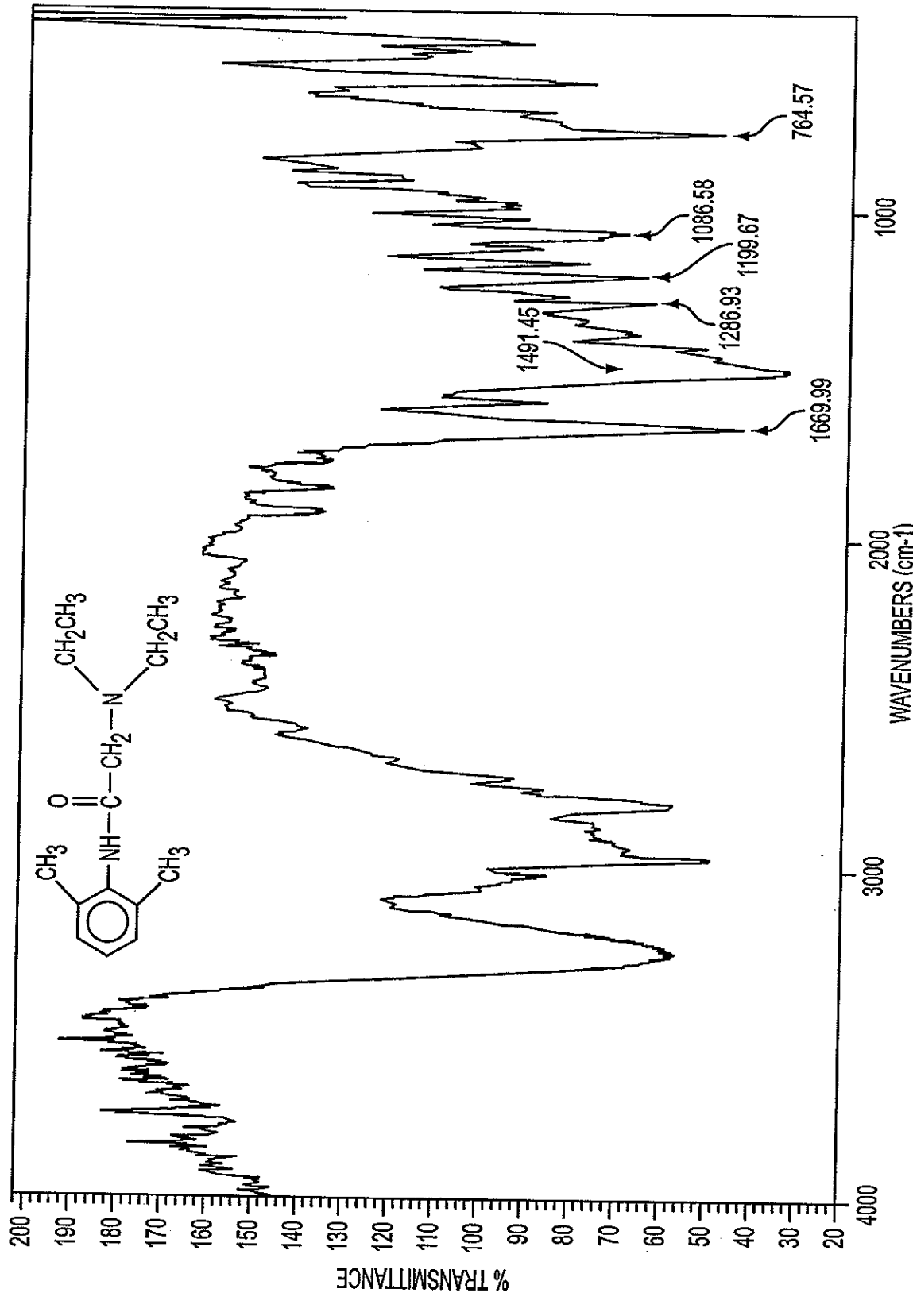

% TRANSMITTANCE
WAVENUMBERS (cm-1)
764.57
1086.58
1199.67
1286.93
1491.45
1669.99
CH2CH3
CH2CH3
N
CH2
C
O
NH
CH3
CH3

FIG. 11

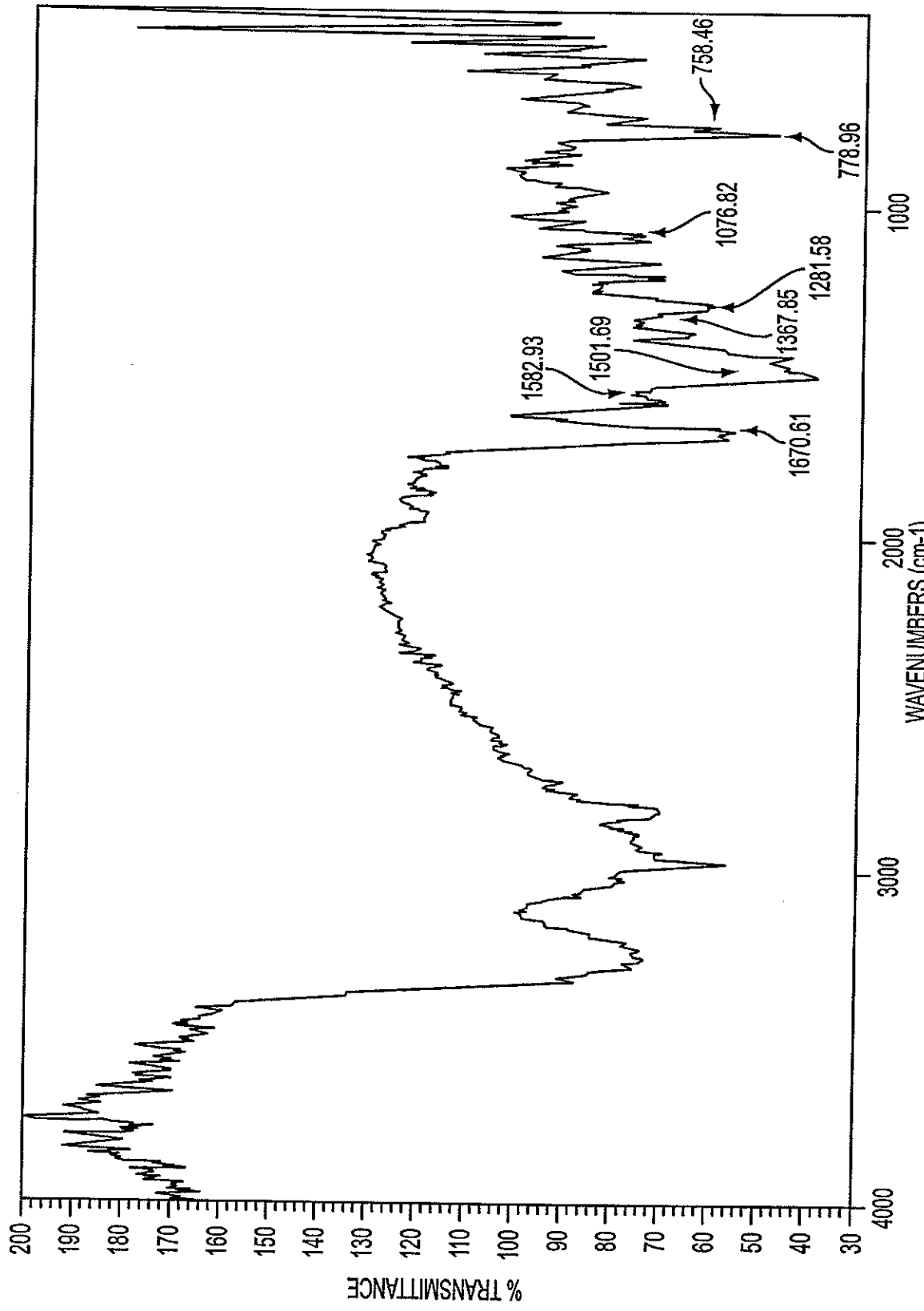

% TRANSMITTANCE
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
4000
3000
2000
1000
WAVENUMBERS (cm-1)
758.46
778.96
1076.82
1281.58
1367.85
1501.69
1582.93
1670.61

FIG. 12

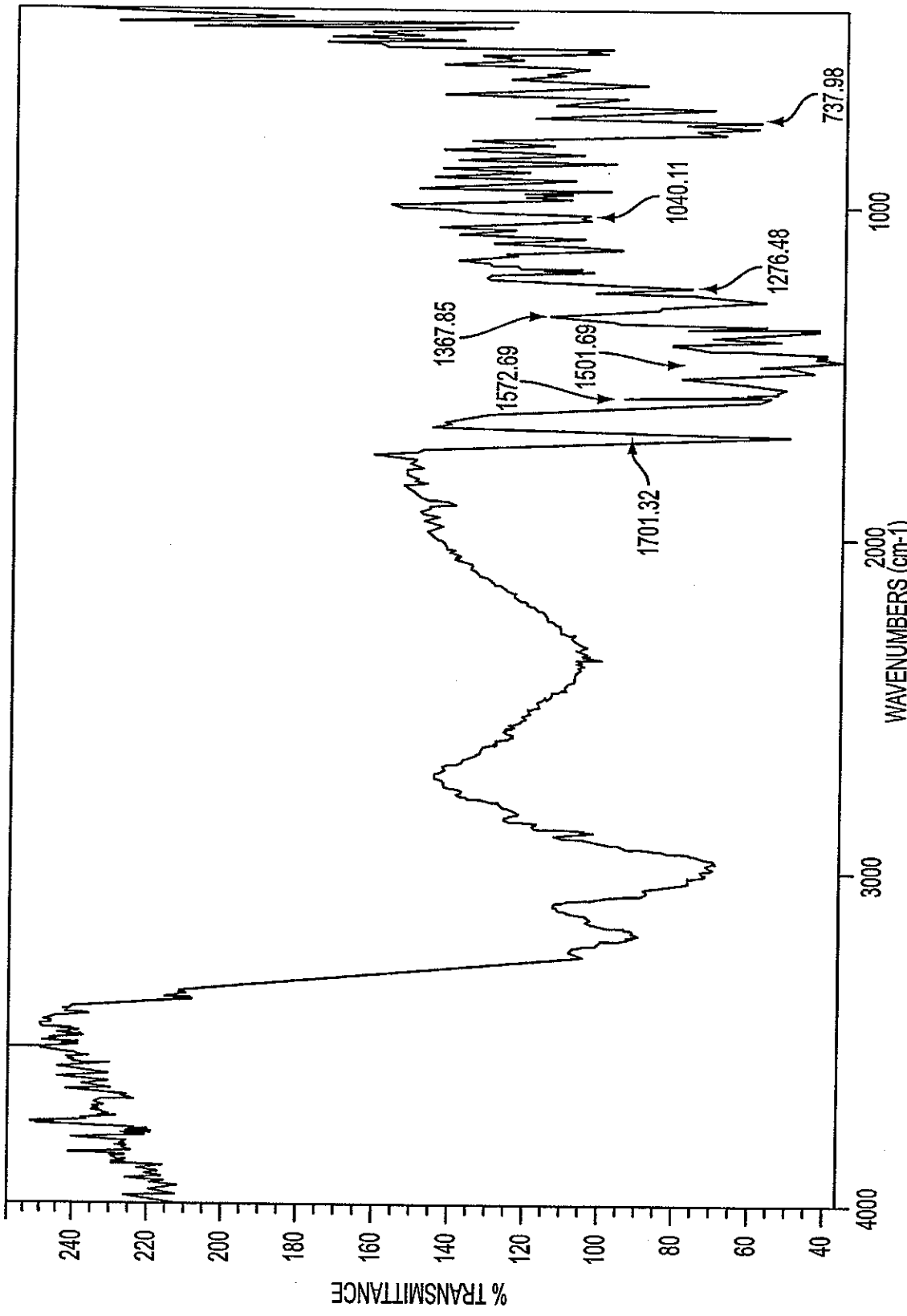

% TRANSMITTANCE
240
220
200
180
160
140
120
100
80
60
40
4000
3000
2000
1000
WAVENUMBERS (cm-1)
737.98
1040.11
1276.48
1367.85
1501.69
1572.69
1701.32

FIG. 13