Figure 1

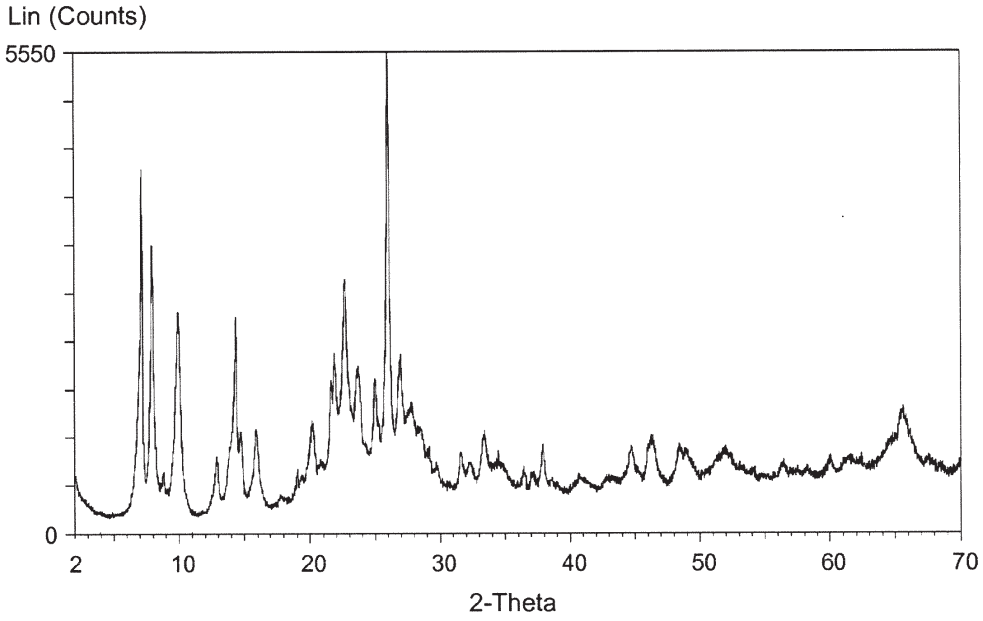


Figure 2

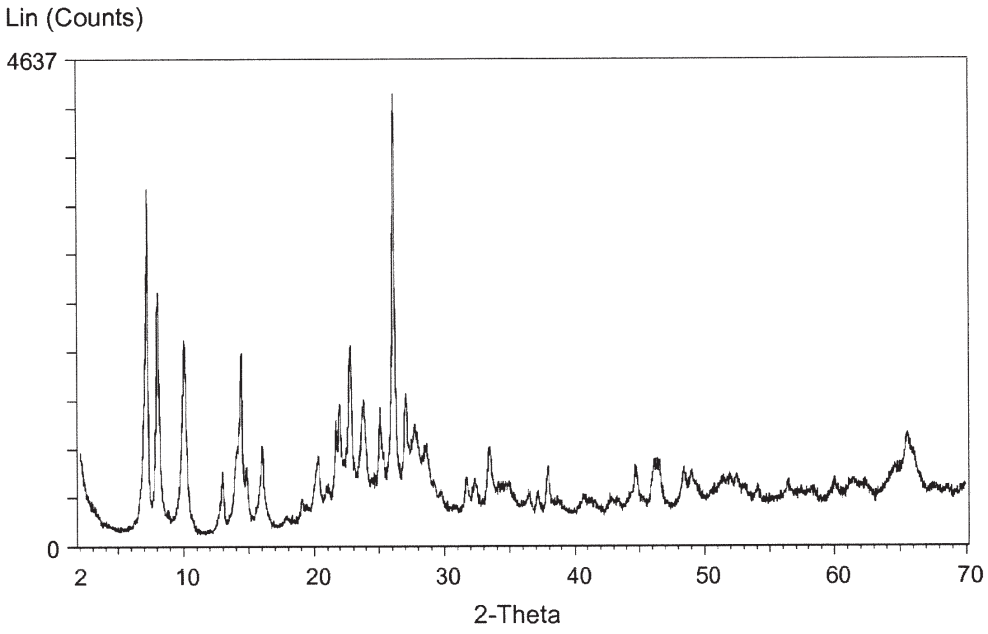


Figure 3

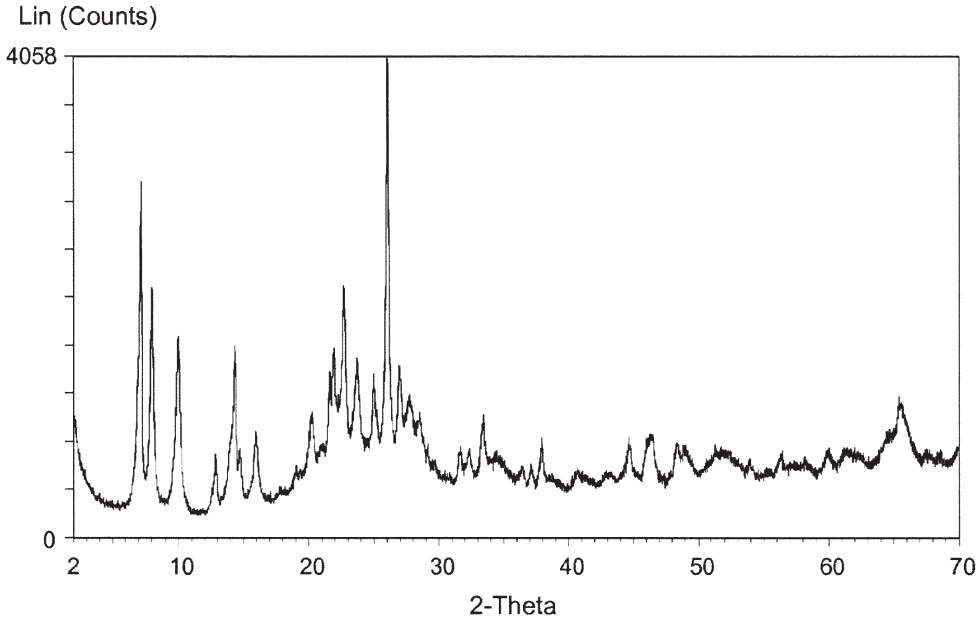


Figure 4

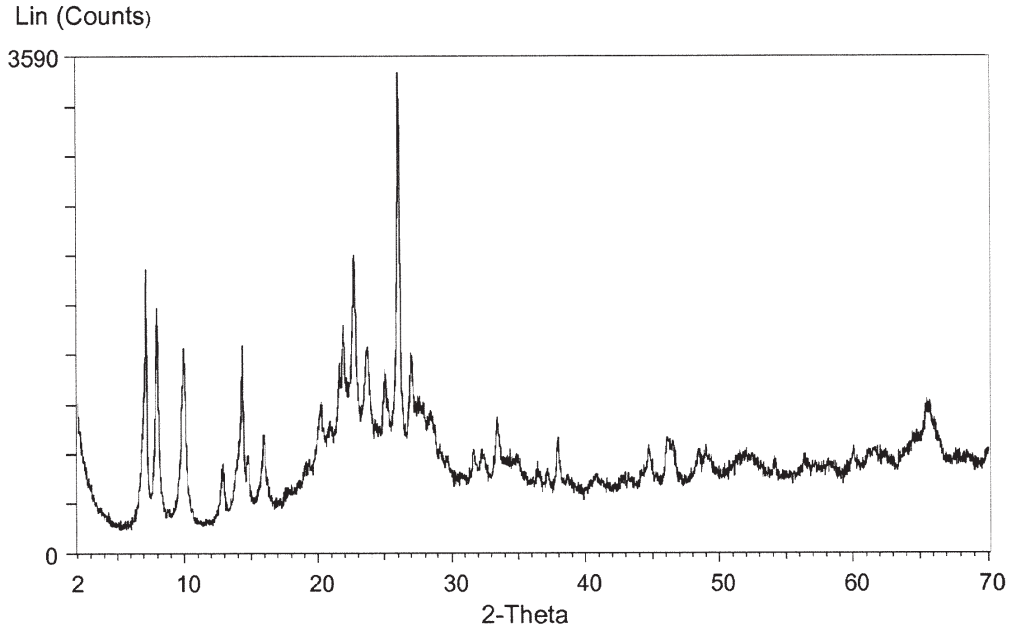
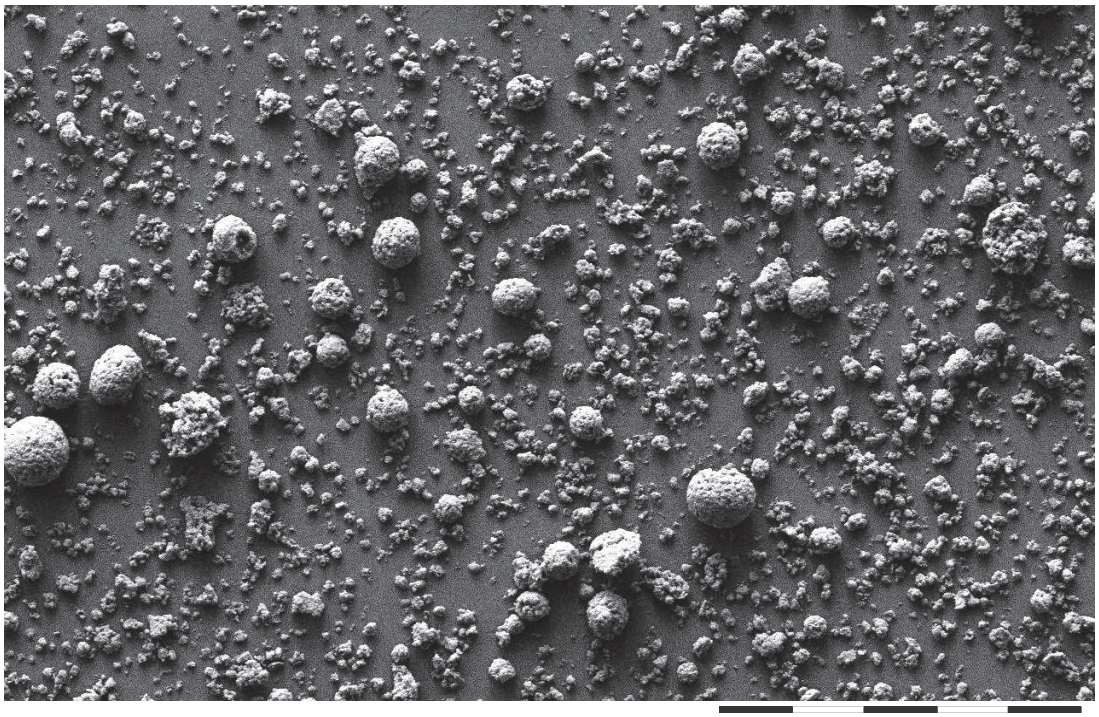
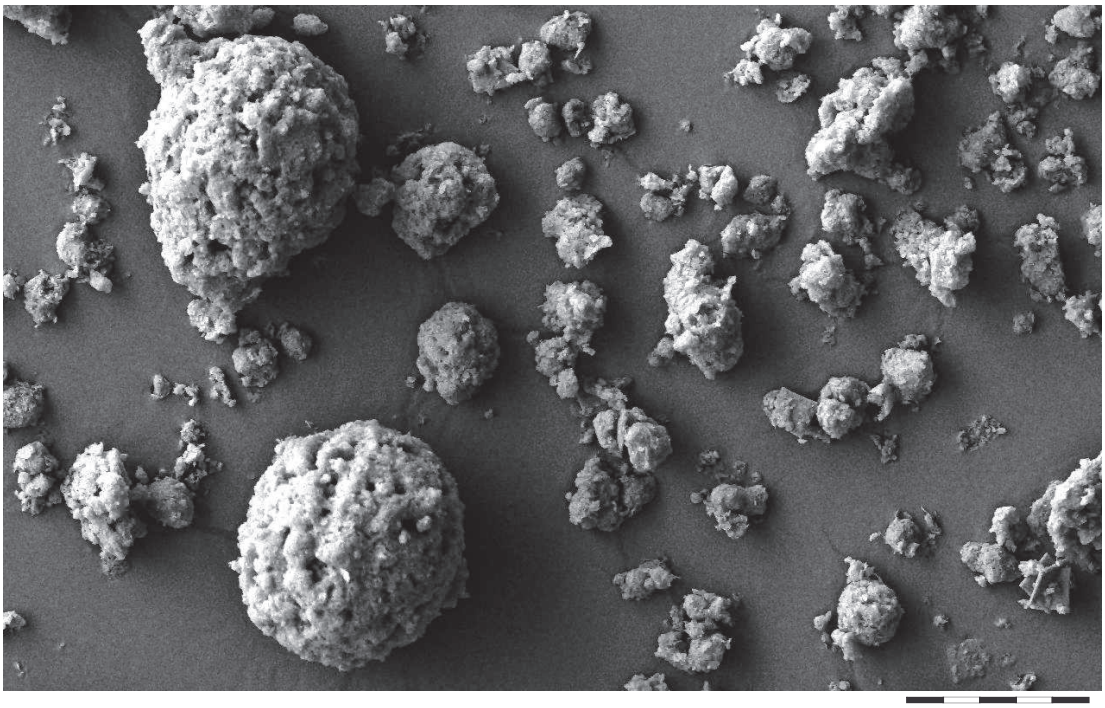


Figure 5



200 micrometer

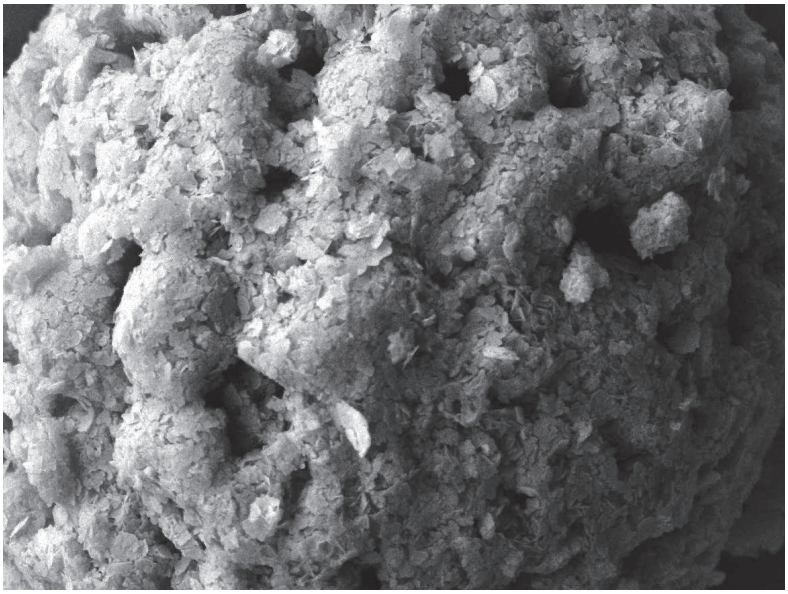
Figure 6



1500 : 1

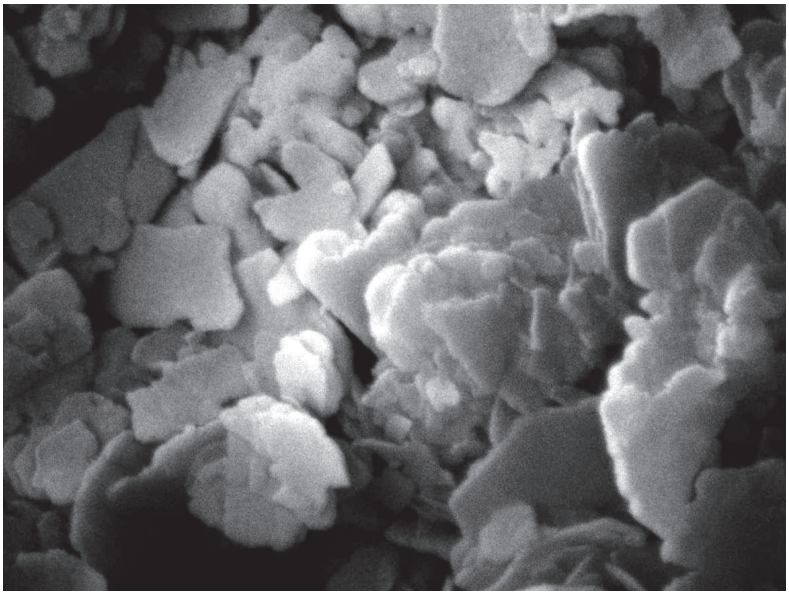
20 micrometer

Figure 7



5 micrometer

Figure 8



50000 : 1

500 nm

Figure 9

Register 1: Betriebsanleitung Sicherheitshandbuch für die Material-Prüfmaschine Z2.5/TS1S

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Werk-Nummer: 141140
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Figure 10

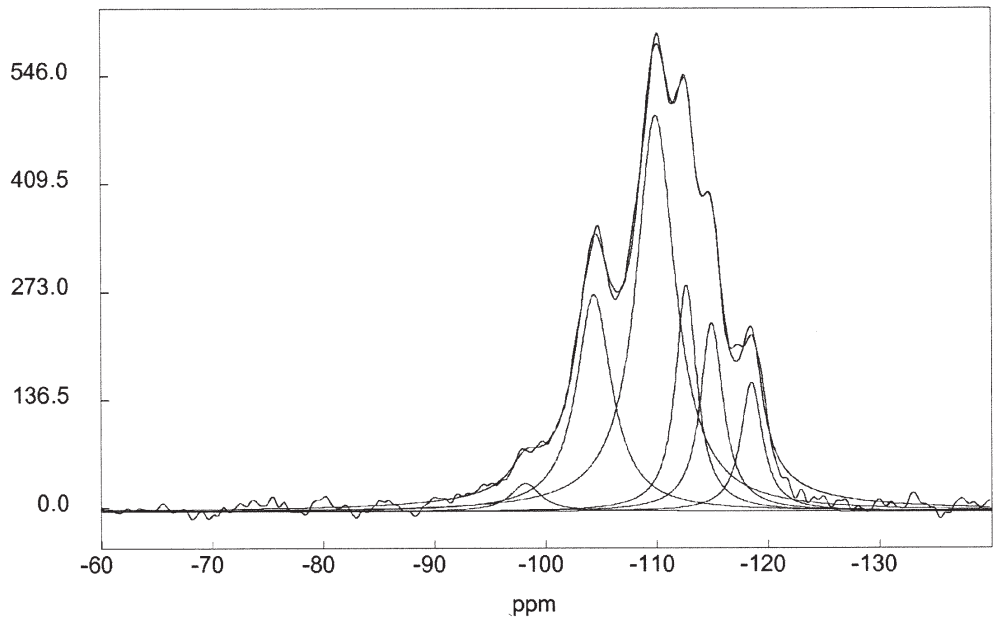


Figure 11

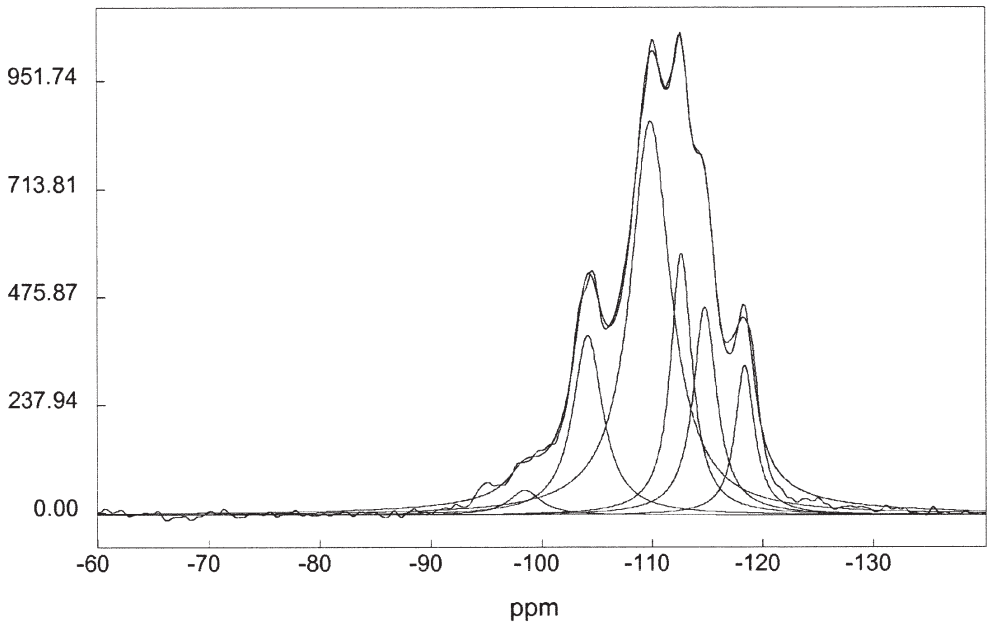


Figure 12

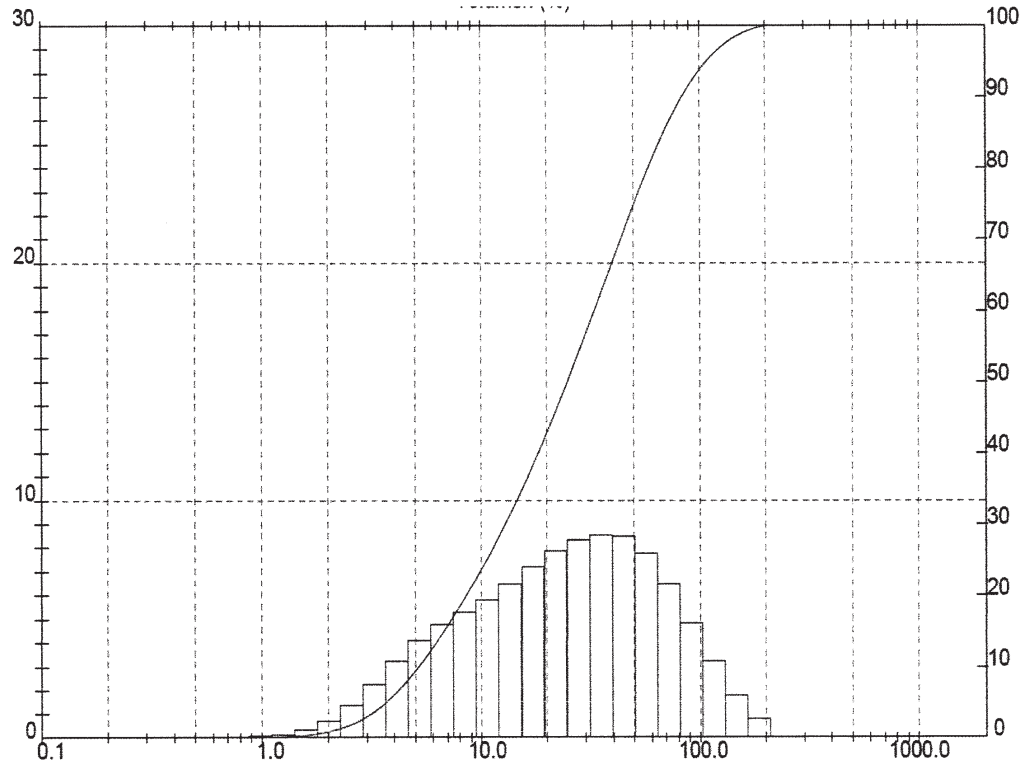


Figure 13

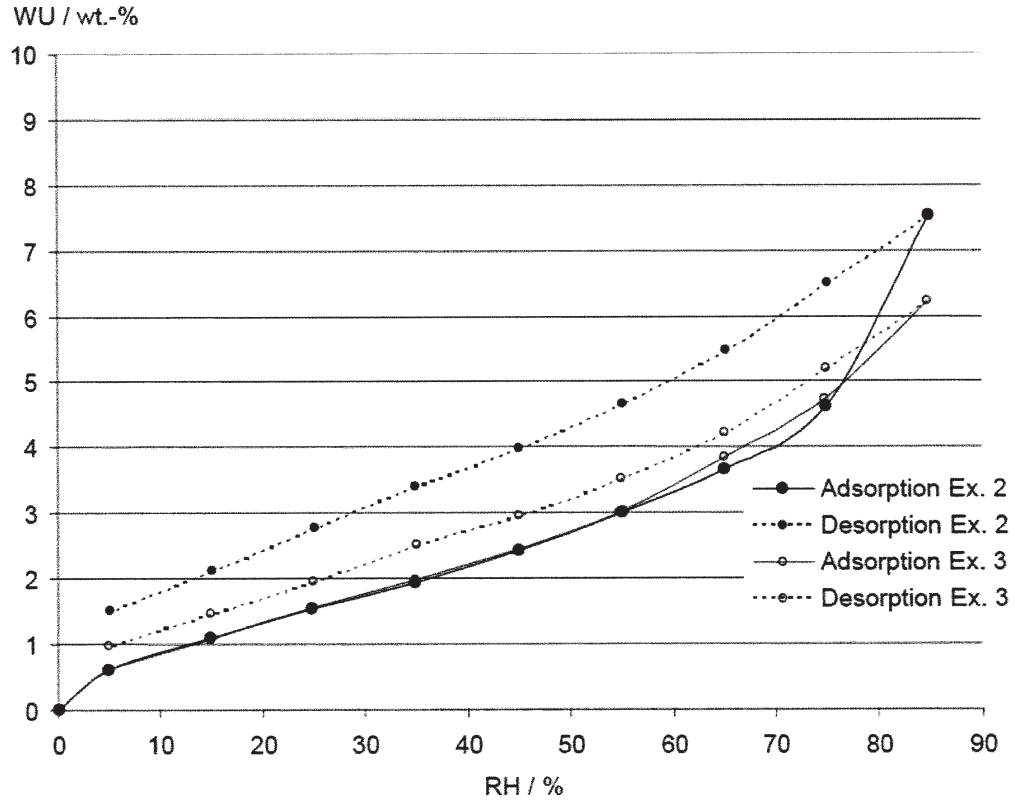

WU / wt.-%
10
9
8
7
6
5
4
3
2
1
0
0
10
20
30
40
50
60
70
80
90
RH / %
Adsorption Ex. 2
Desorption Ex. 2
Adsorption Ex. 3
Desorption Ex. 3

Figure 14

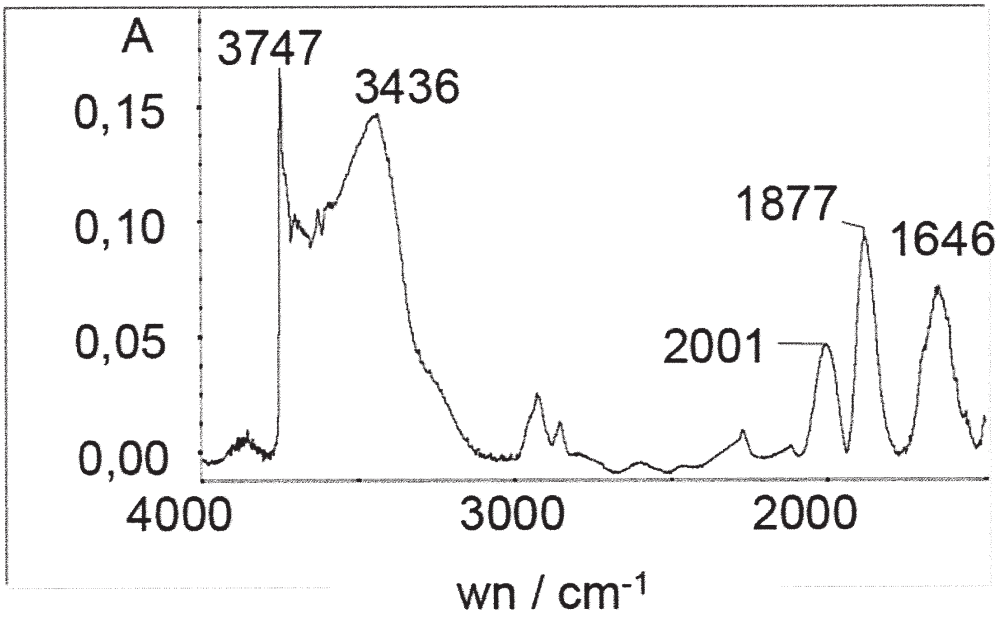

A
3747
3436
1877
1646
2001
0,15
0,10
0,05
0,00
4000
3000
2000
wn / cm-1

Figure 15

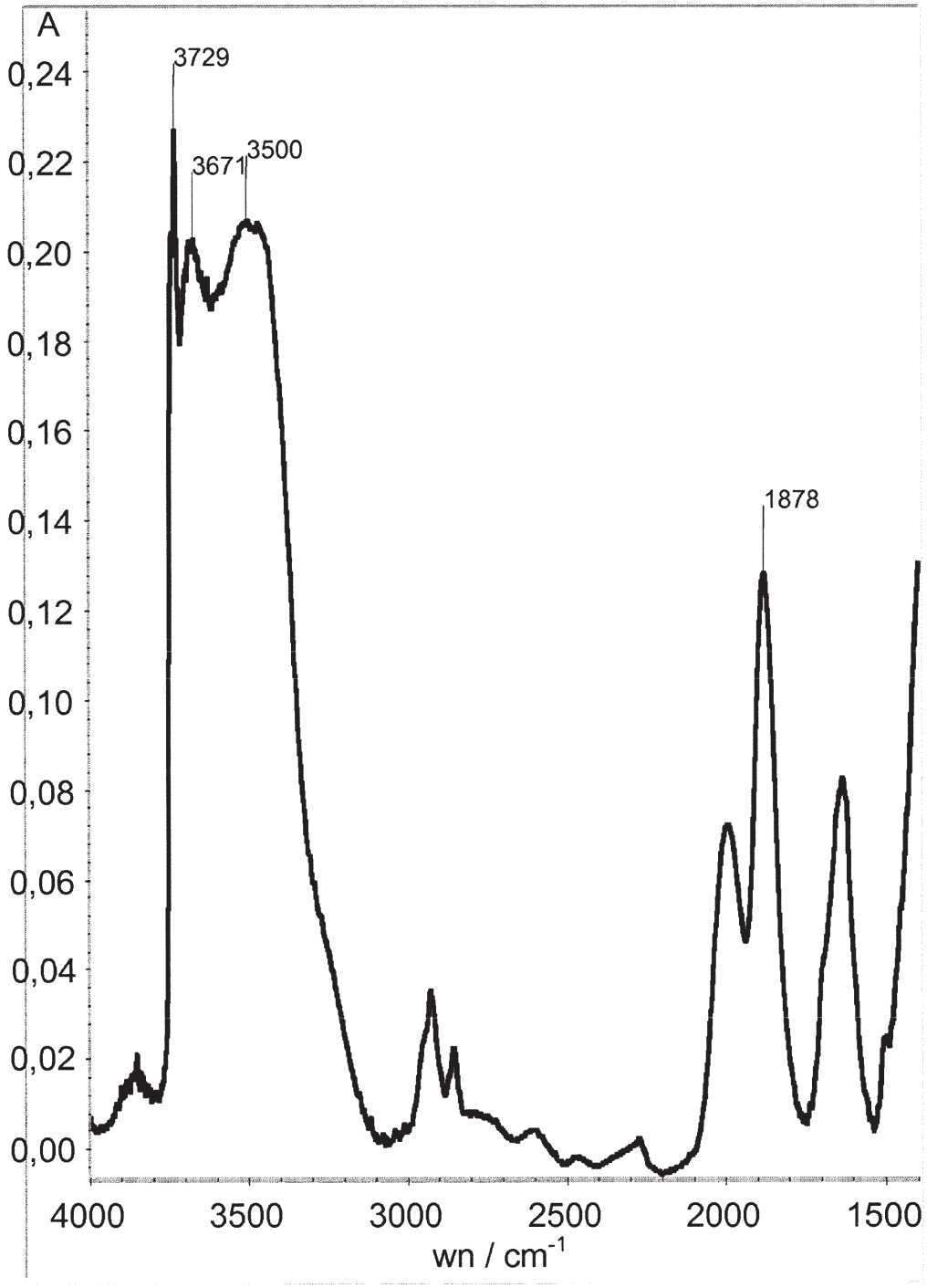
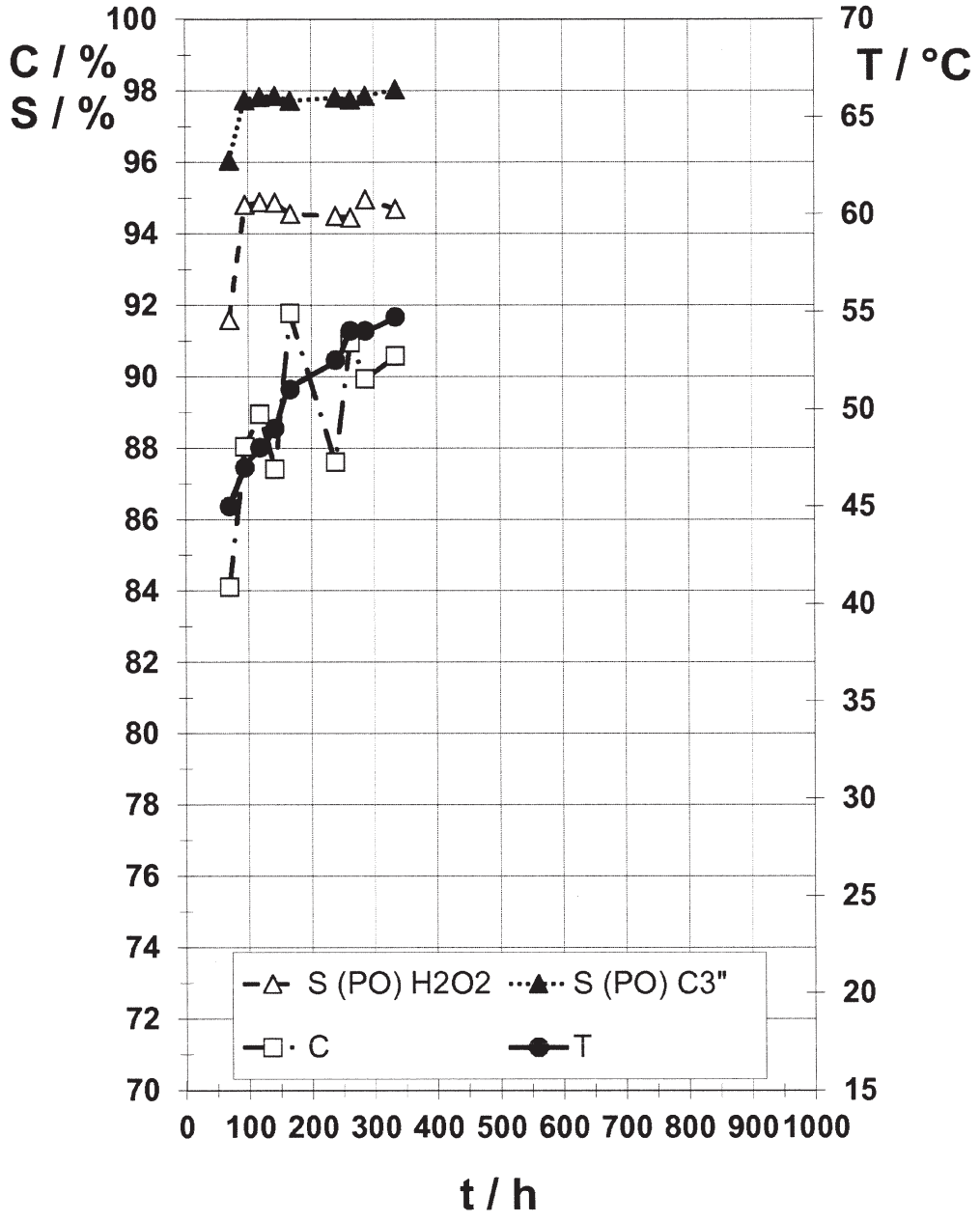

A
0,24
0,22
0,20
0,18
0,16
0,14
0,12
0,10
0,08
0,06
0,04
0,02
0,00
3729
3671
3500
1878
4000
3500
3000
2500
2000
1500
wn / cm-1

Figure 16


C / %
S / %
T / °C
100
98
96
94
92
90
88
86
84
82
80
78
76
74
72
70
70
65
60
55
50
45
40
35
30
25
20
15
0 100 200 300 400 500 600 700 800 900 1000
t / h
S (PO) H2O2
S (PO) C3"
C
T

5

Figure 17

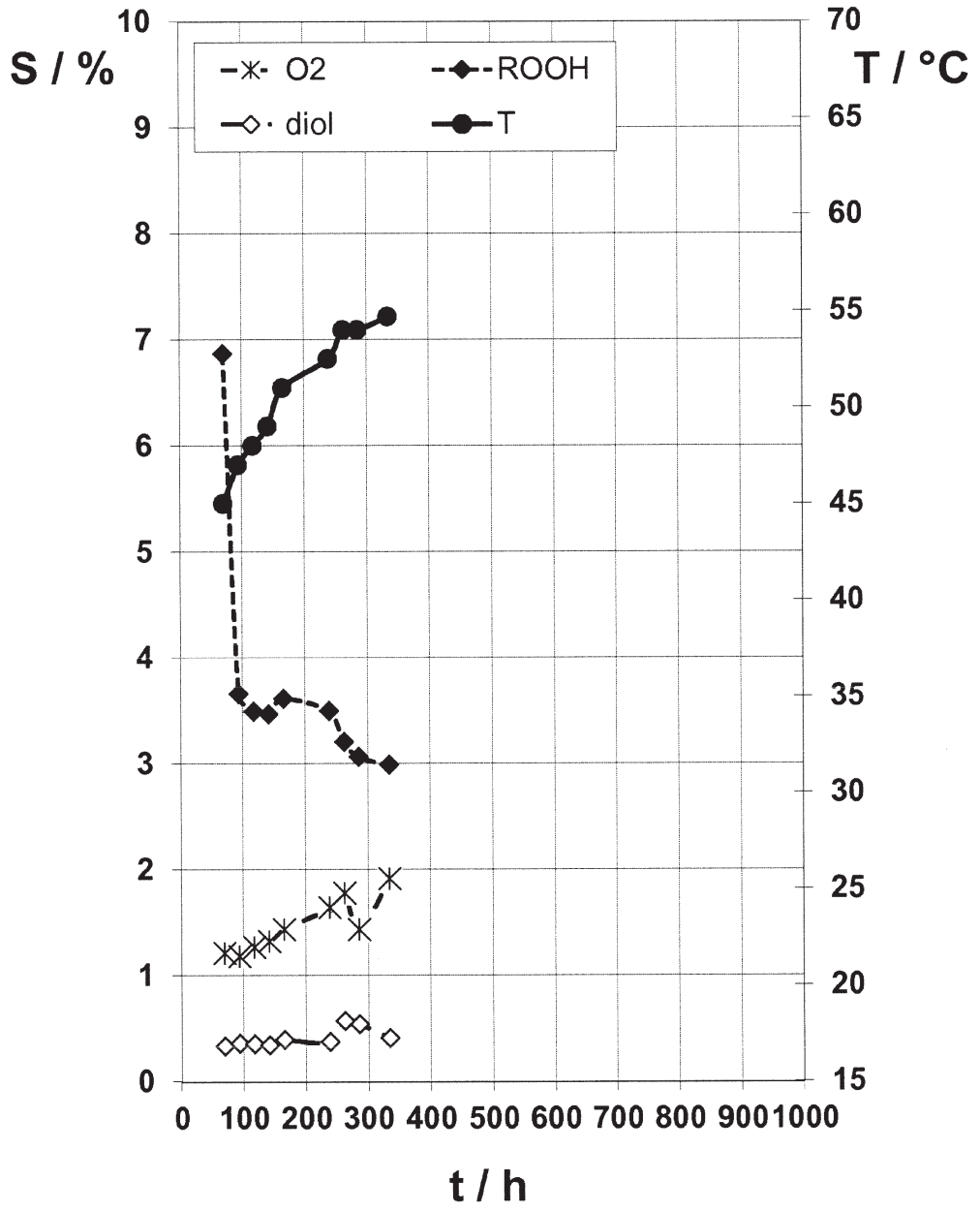

S / %
T / °C
O2
ROOH
diol
T
10
9
8
7
6
5
4
3
2
1
0
70
65
60
55
50
45
40
35
30
25
20
15
0 100 200 300 400 500 600 700 800 900 1000
t / h

Figure 18

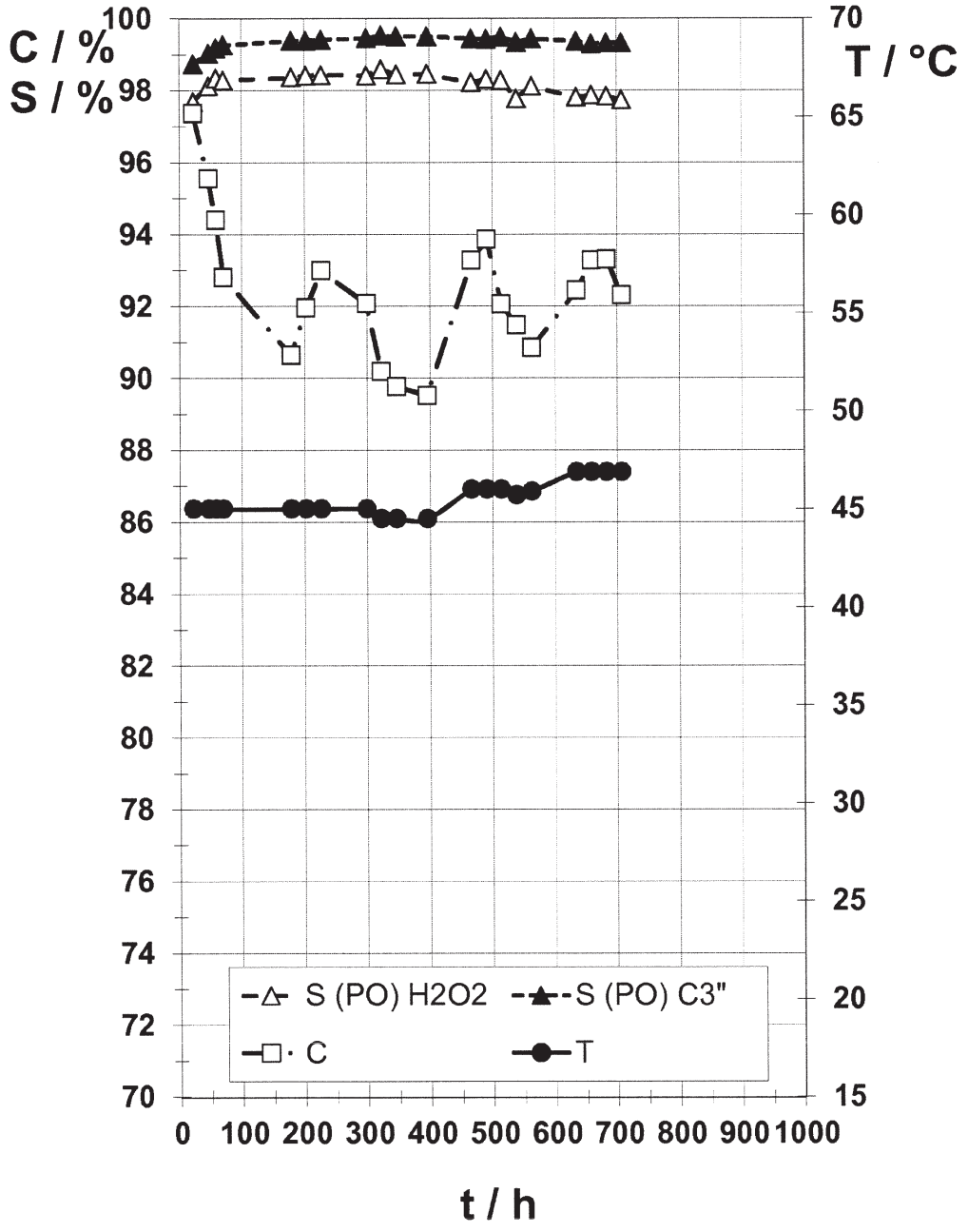

C / %
S / %
T / °C
100
98
96
94
92
90
88
86
84
82
80
78
76
74
72
70
70
65
60
55
50
45
40
35
30
25
20
15
0
100
200
300
400
500
600
700
800
900
1000
t / h
S (PO) H2O2
S (PO) C3"
C
T

Figure 19

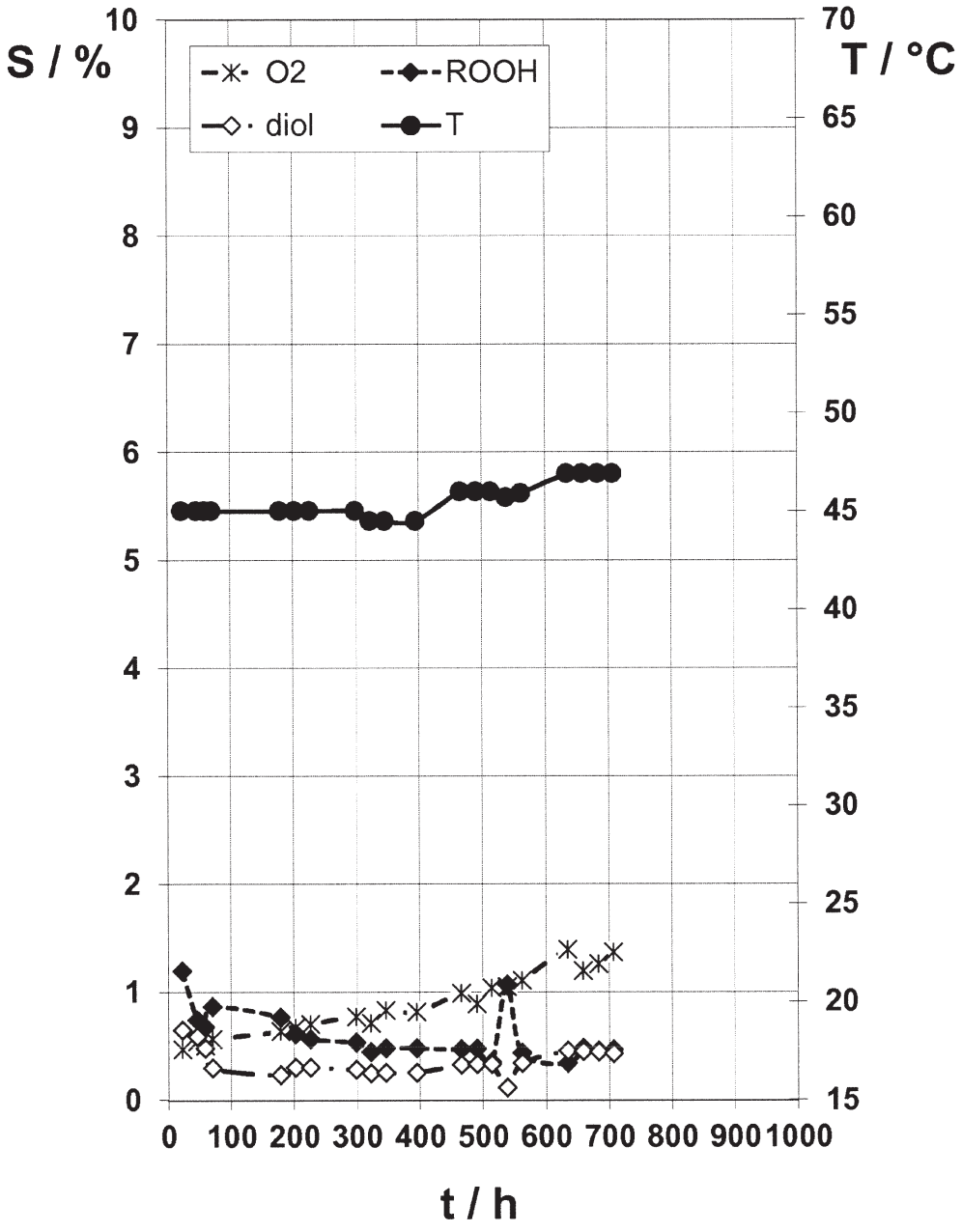

S / %
T / °C
O2
ROOH
diol
T
10
9
8
7
6
5
4
3
2
1
0
70
65
60
55
50
45
40
35
30
25
20
15
0 100 200 300 400 500 600 700 800 900 1000
t / h

Figure 20

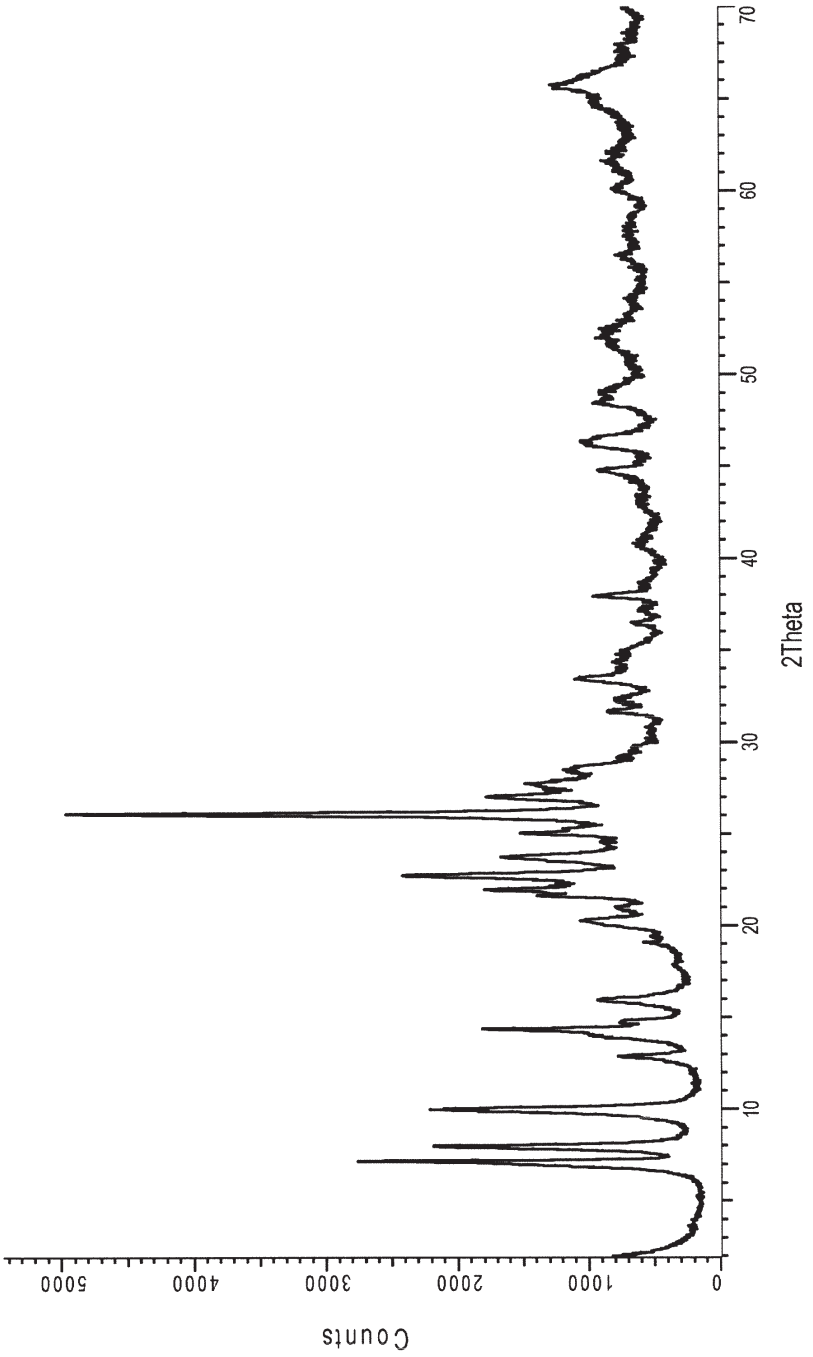


Figure 21

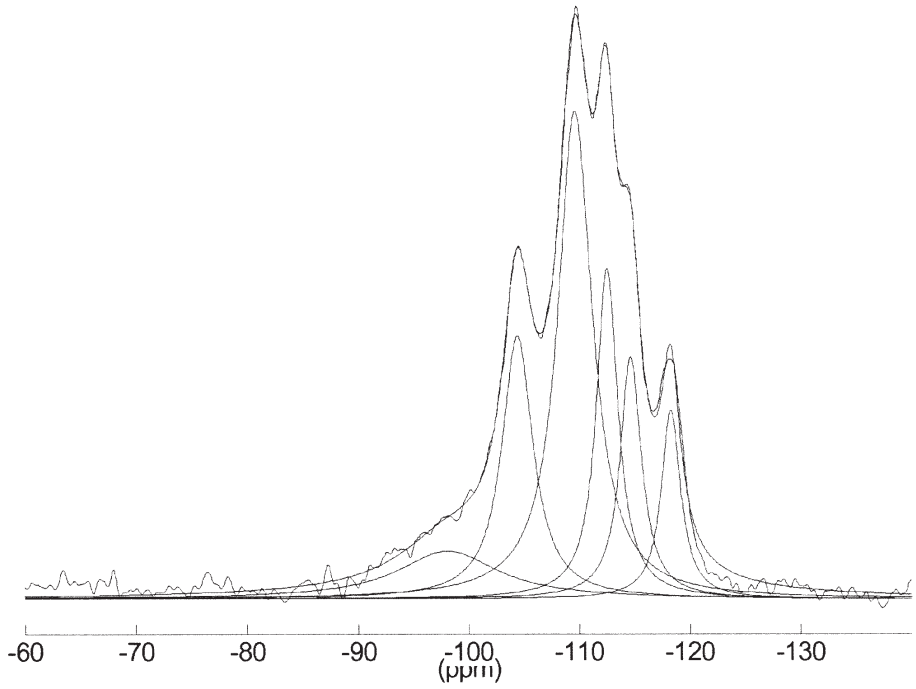


Figure 22

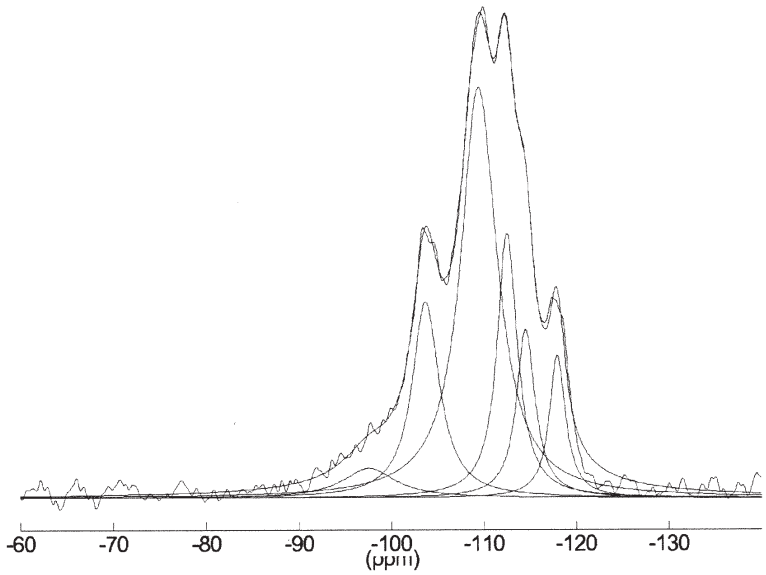


Figure 23

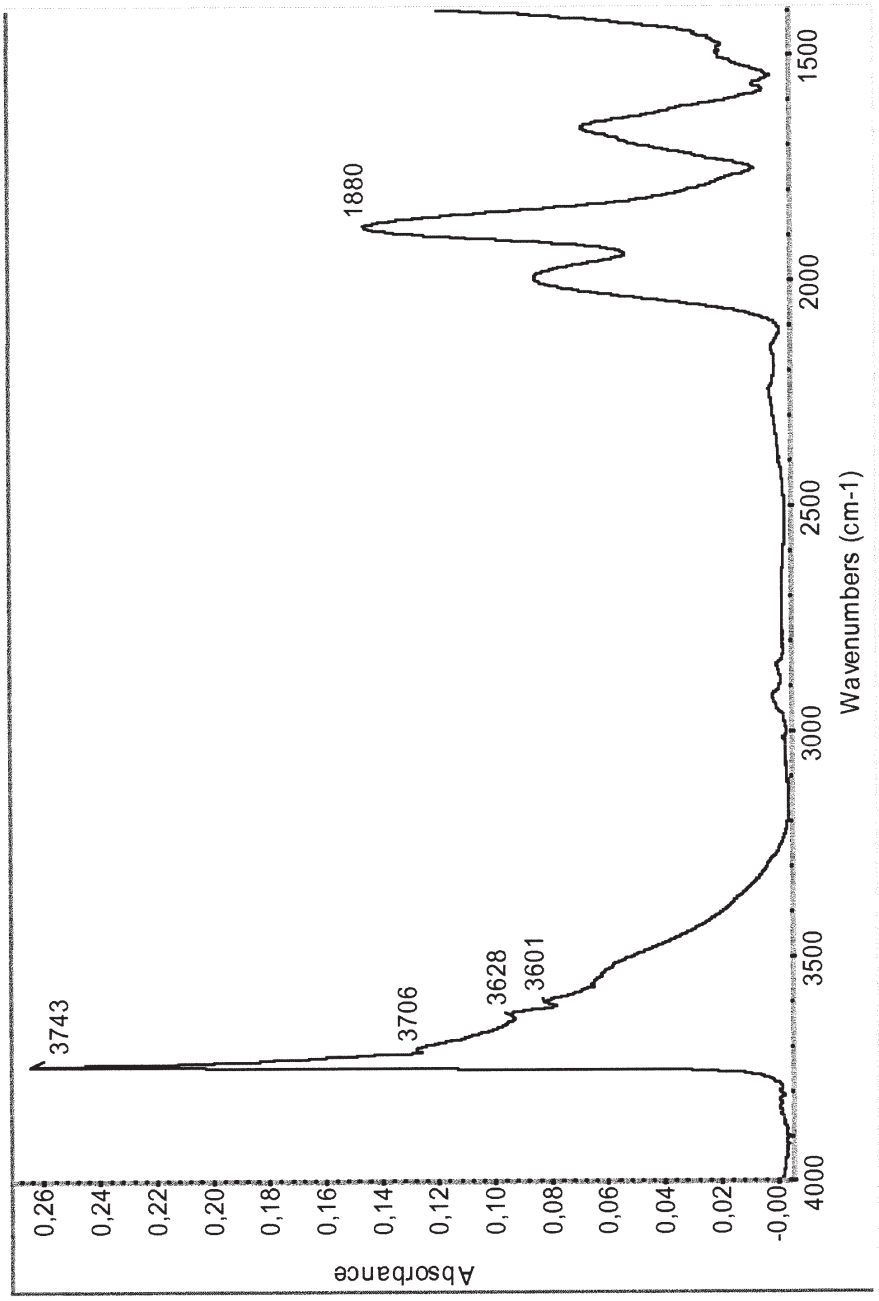

Absorbance
0,26
0,24
0,22
0,20
0,18
0,16
0,14
0,12
0,10
0,08
0,06
0,04
0,02
-0,00
4000
3500
3000
2500
2000
1500
Wavenumbers (cm-1)
3743
3706
3628
3601
1880

Figure 24

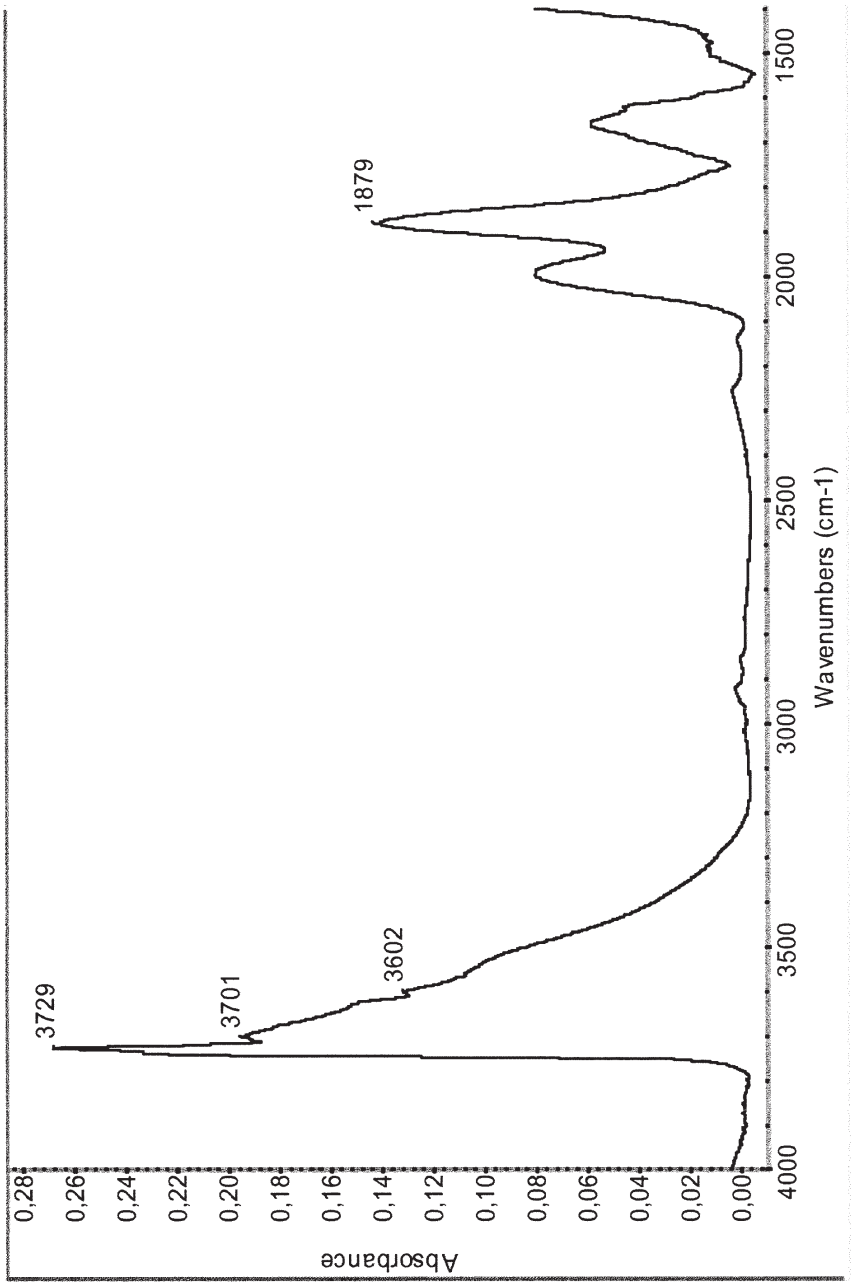

Absorbance
0,28
0,26
0,24
0,22
0,20
0,18
0,16
0,14
0,12
0,10
0,08
0,06
0,04
0,02
0,00
4000
3500
3000
2500
2000
1500
Wavenumbers (cm-1)
3729
3701
3602
1879

Figure 25

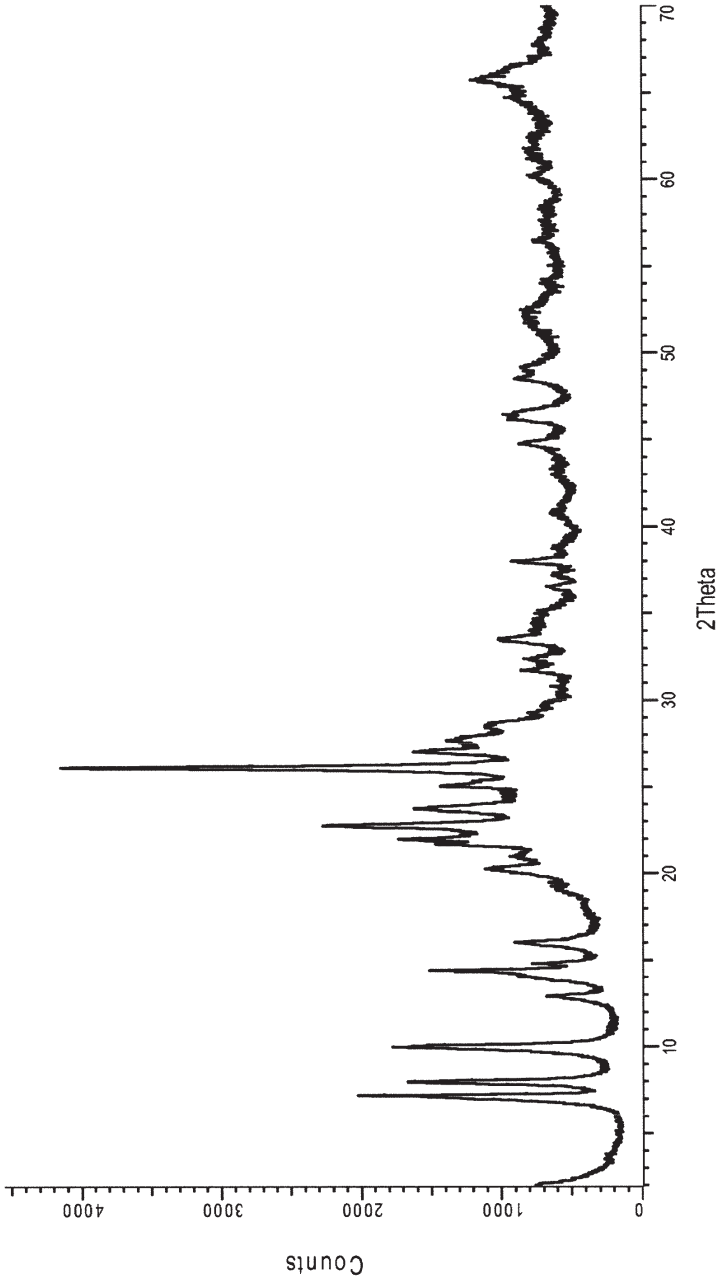


Figure 26

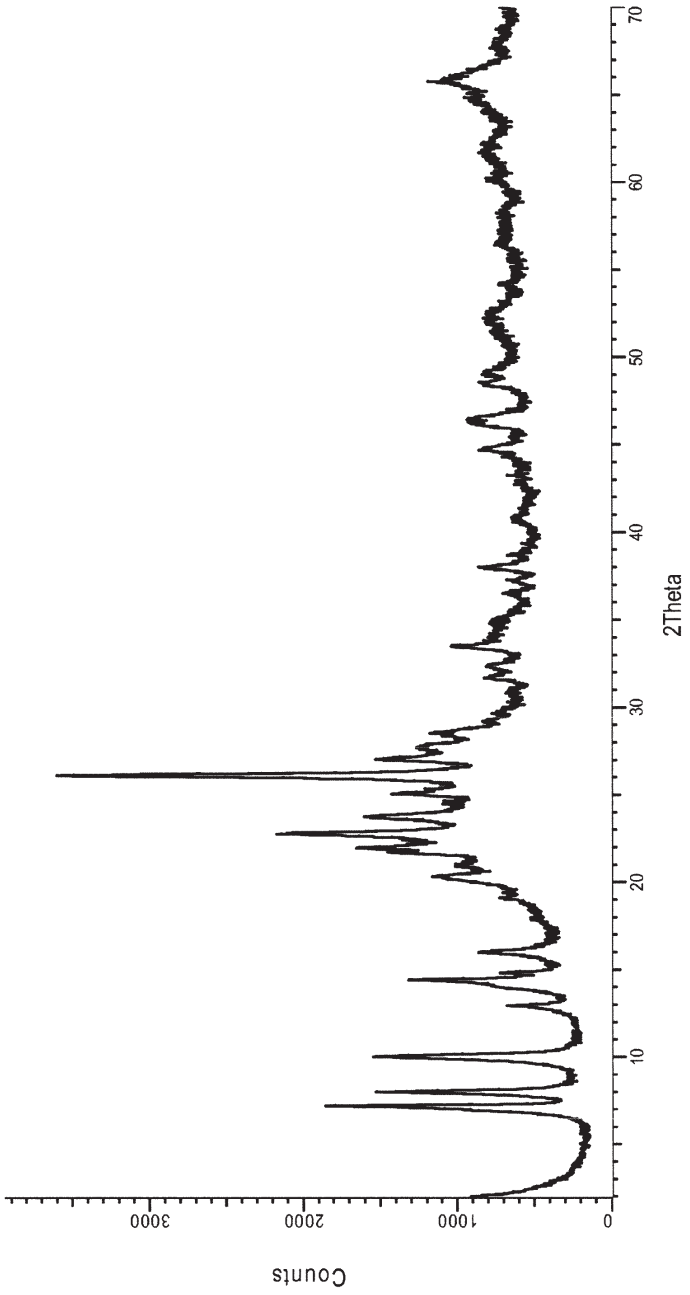
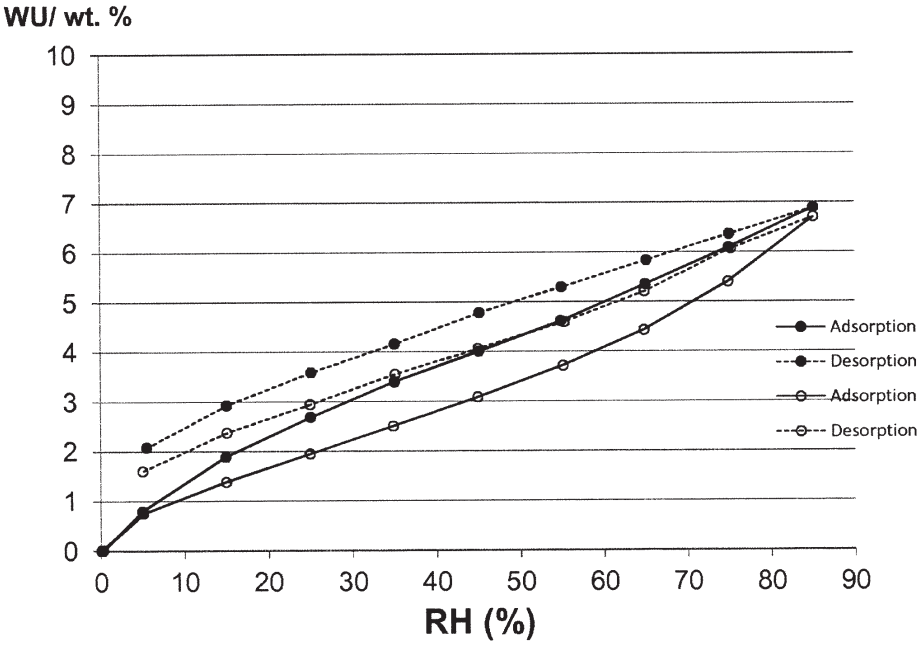


Figure 27


WU/ wt. %
10
9
8
7
6
5
4
3
2
1
0
0
10
20
30
40
50
60
70
80
90
RH (%)
Adsorption
Desorption
Adsorption
Desorption