

Figure S1. Isotherms of α -pinenes vapors adsorption at 80 °C by CsCuCl_3 crystals.

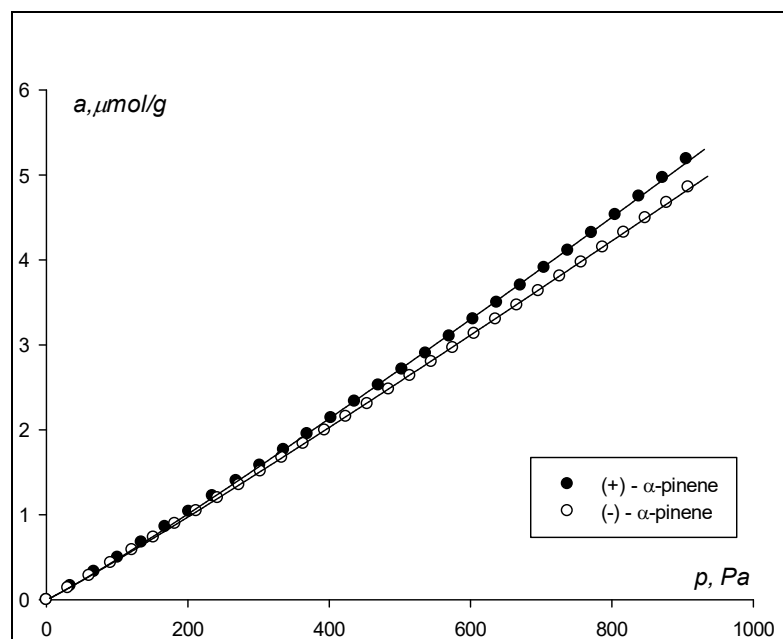


Figure S2. Isotherms of α -pinenes vapors adsorption at 110 °C by CsCuCl_3 crystals.

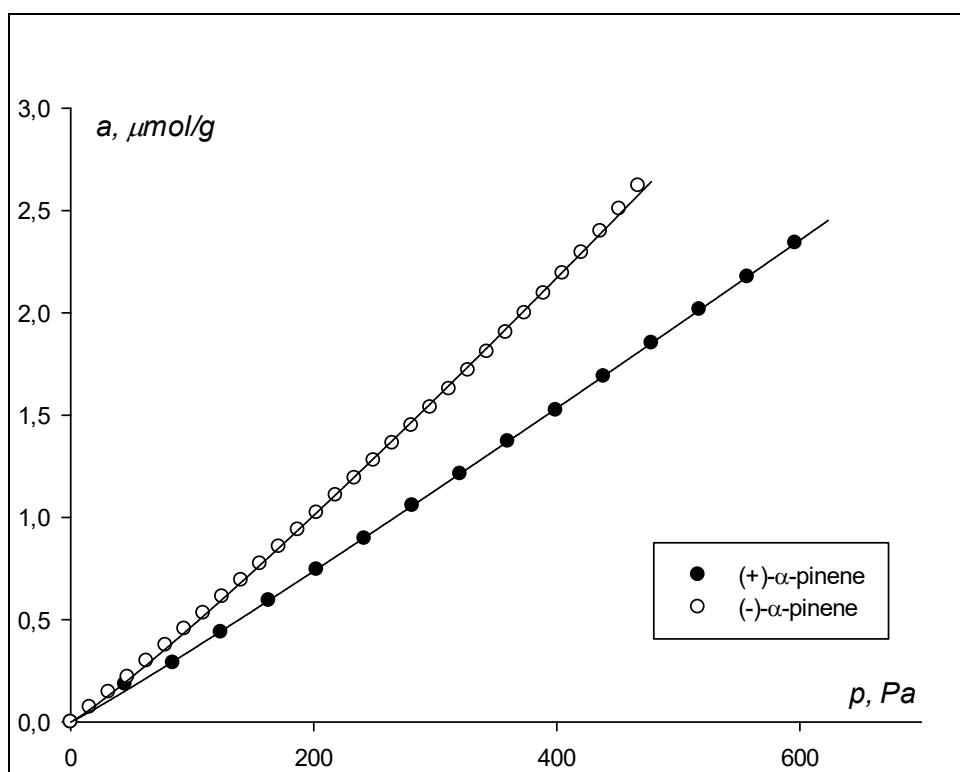


Figure S3. Isotherms of α -pinenes vapors adsorption at 120 °C by CsCuCl_3 crystals.

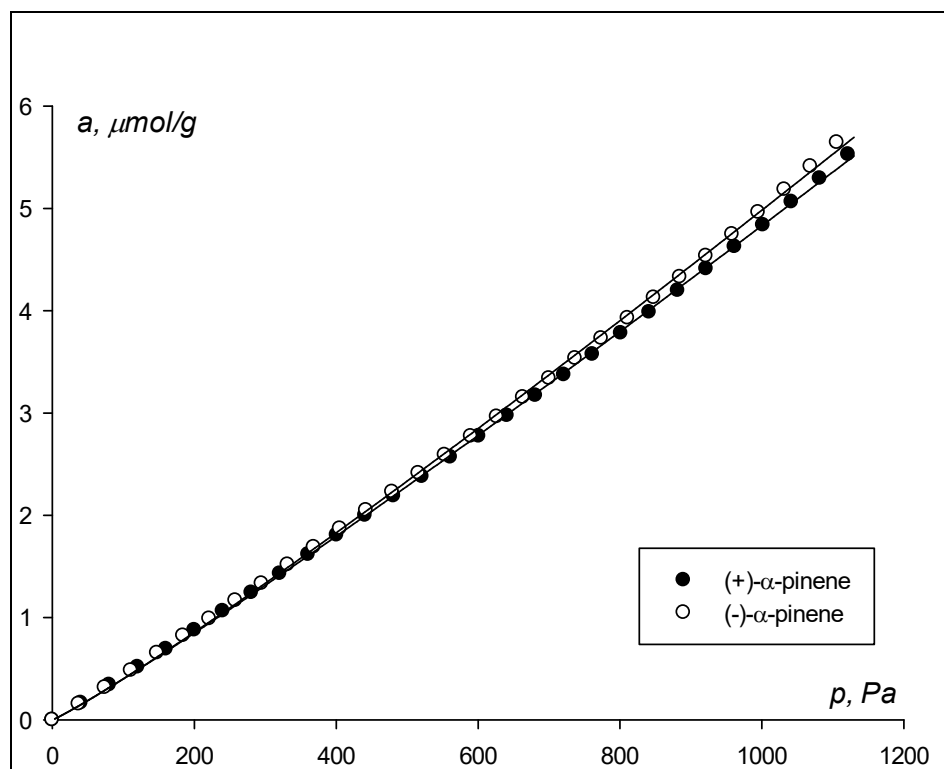


Figure S4. Isotherms of α -pinenes vapors adsorption at 130 °C by CsCuCl_3 crystals.

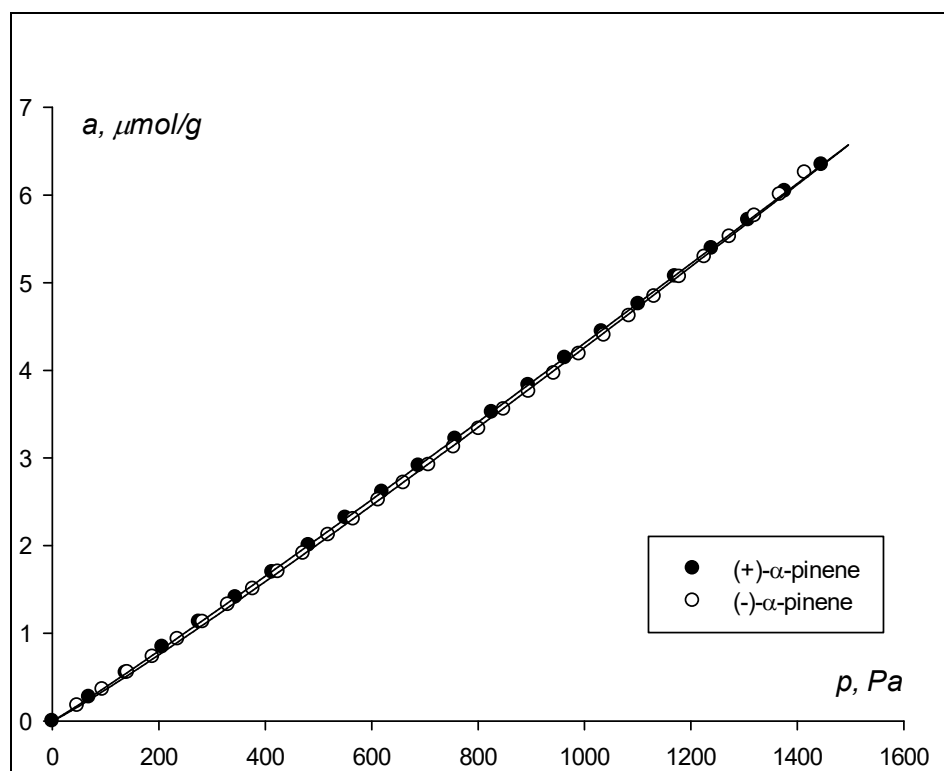


Figure S5. Isotherms of α -pinenes vapors adsorption at 140 °C by CsCuCl_3 crystals.

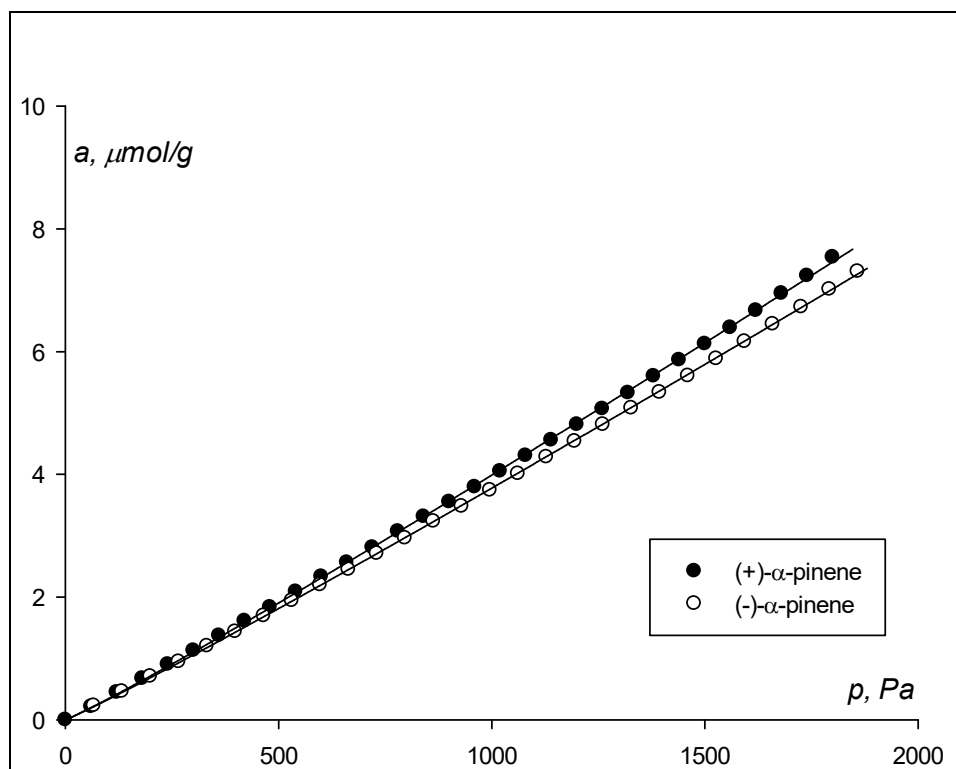


Figure S6. Isotherms of α -pinenes vapors adsorption at 150 °C by CsCuCl_3 crystals.

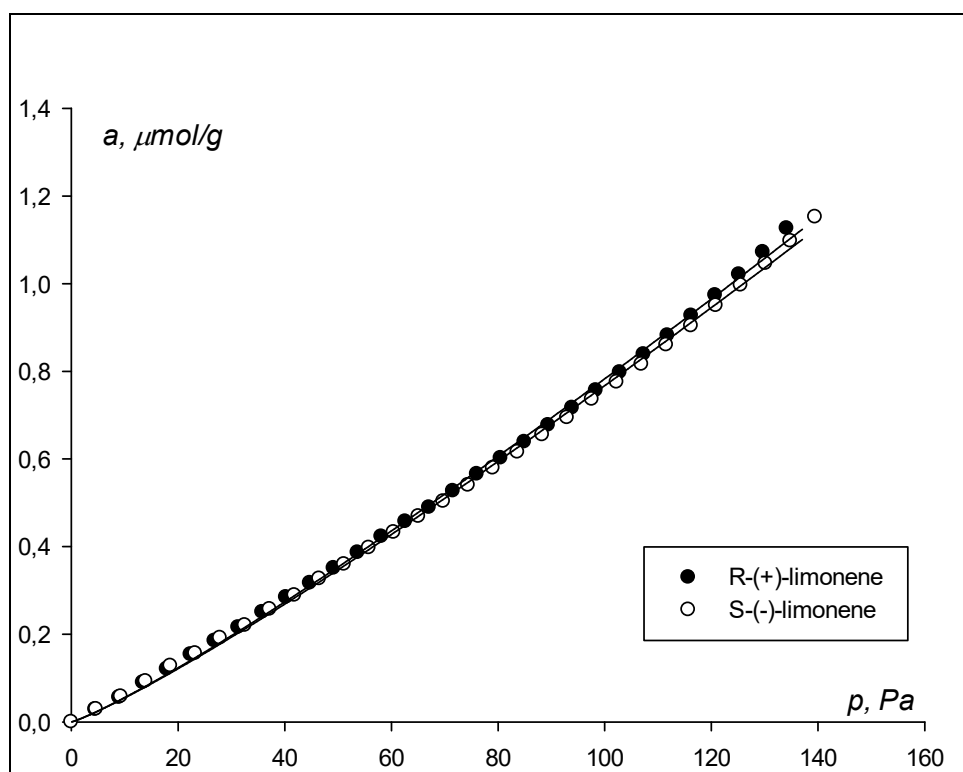


Figure S7. Isotherms of limonene vapors adsorption at 80 °C by CsCuCl₃ crystals.

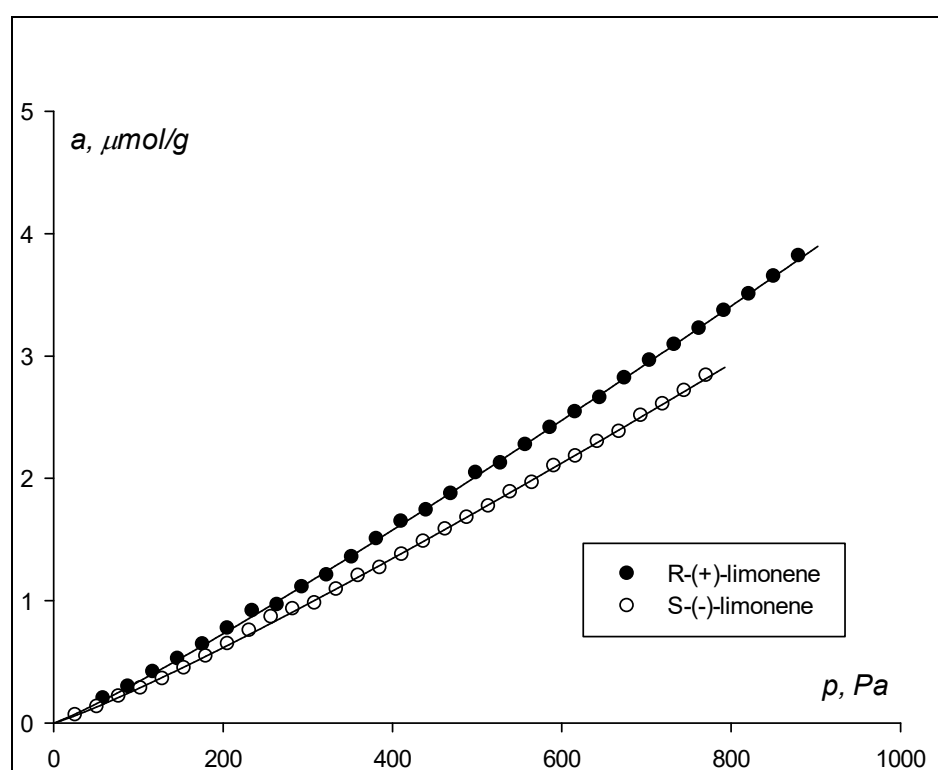


Figure S8. Isotherms of limonene vapors adsorption at 130 °C by CsCuCl₃ crystals.

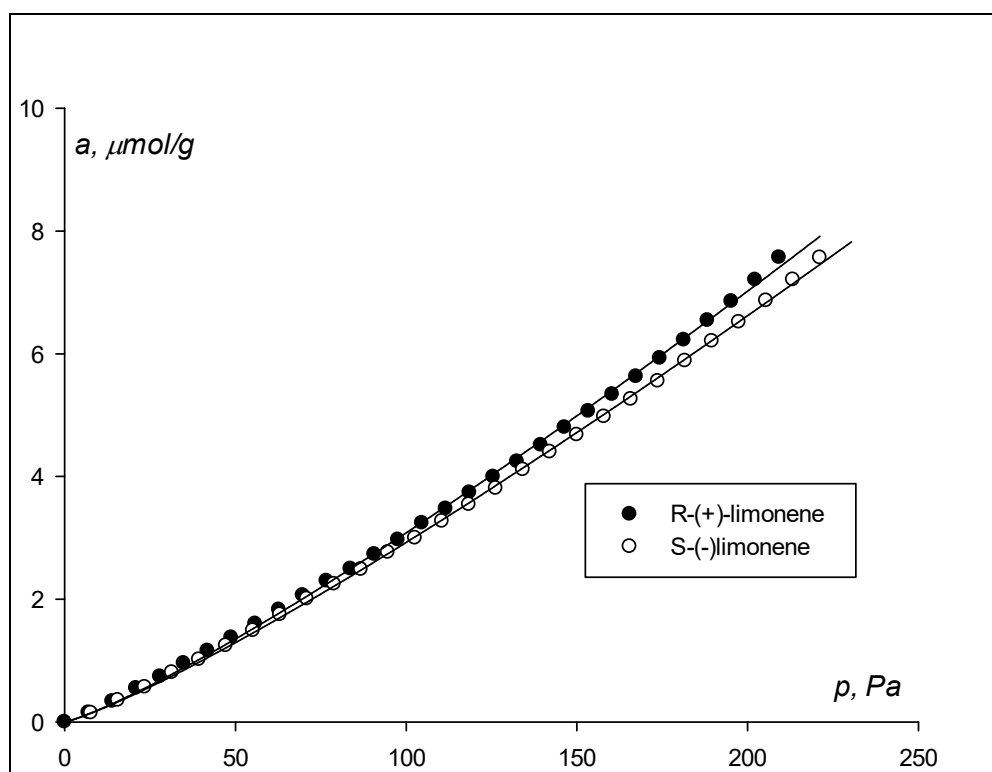


Figure S9. Isotherms of limonene vapors adsorption at 100 °C by γ - glycine crystals.

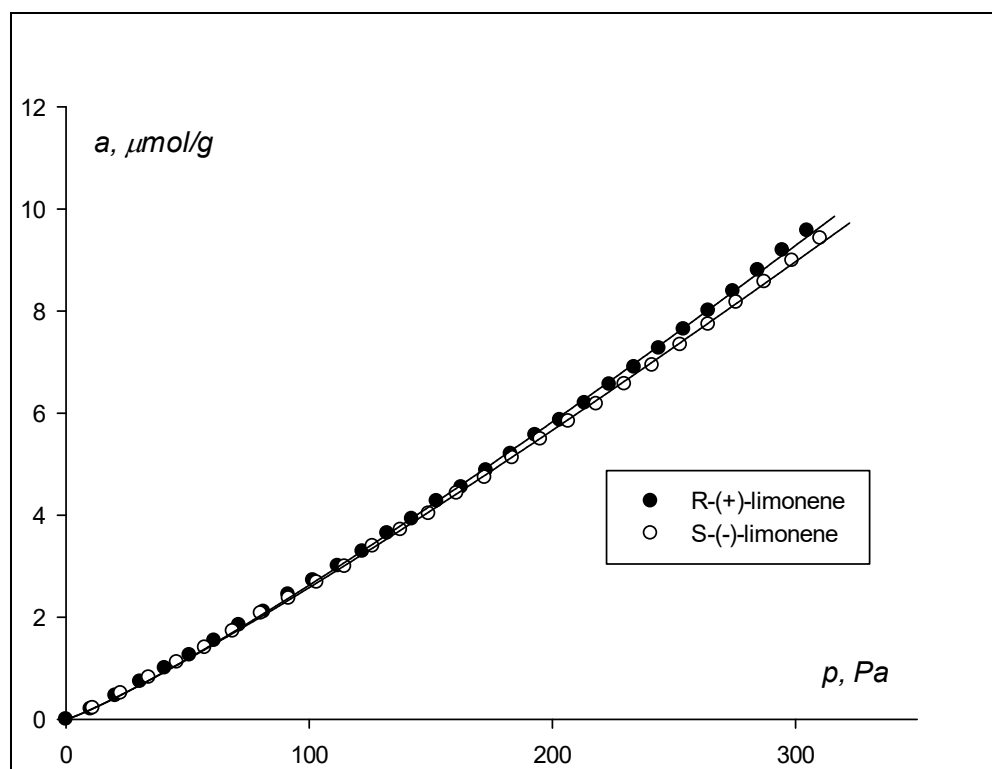


Figure S10. Isotherms of limonene vapors adsorption at 110 °C by γ - glycine crystals.

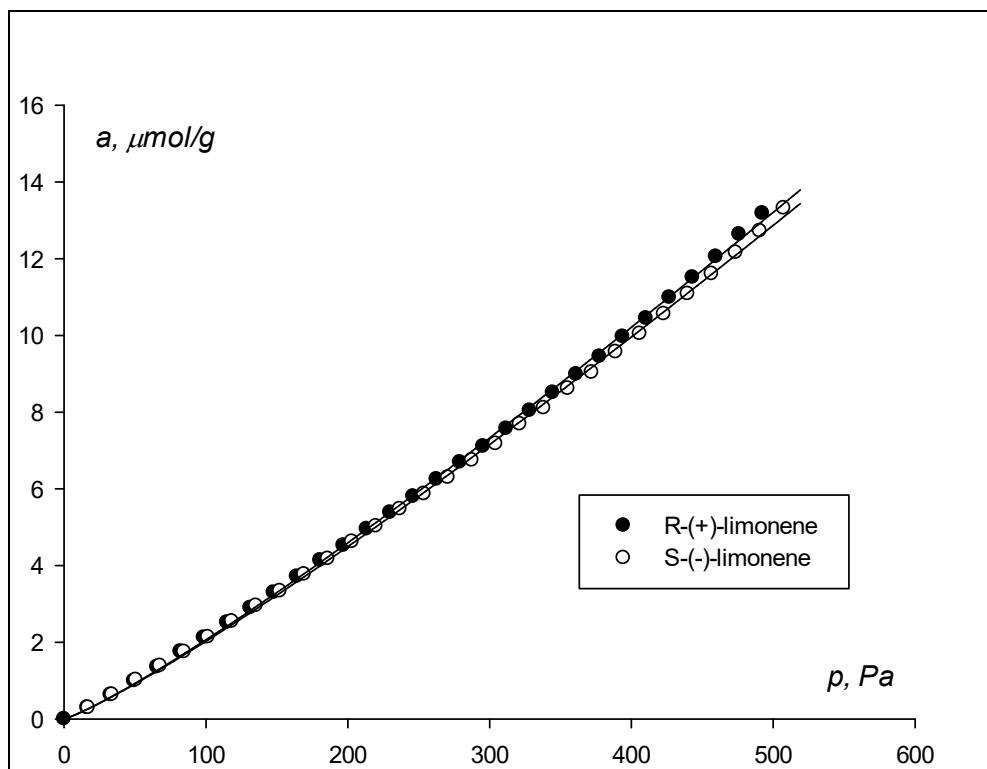


Figure S11. Isotherms of limonene vapors adsorption at 120 °C by γ - glycine crystals.

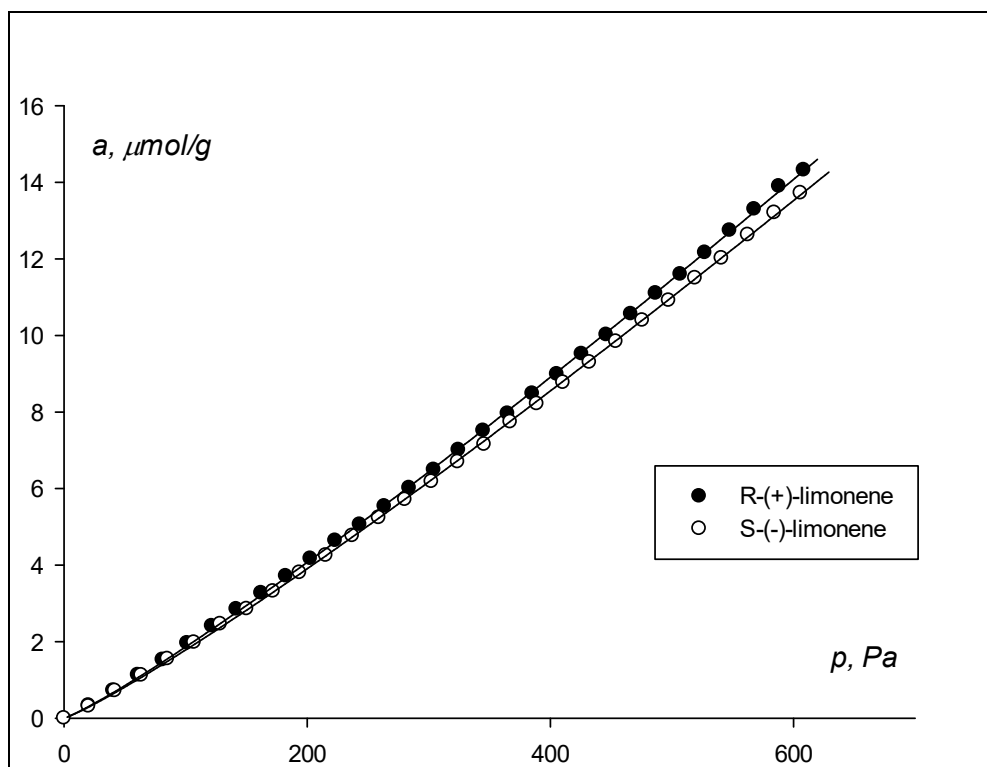


Figure S12. Isotherms of limonene vapors adsorption at 130 °C by γ - glycine crystals.

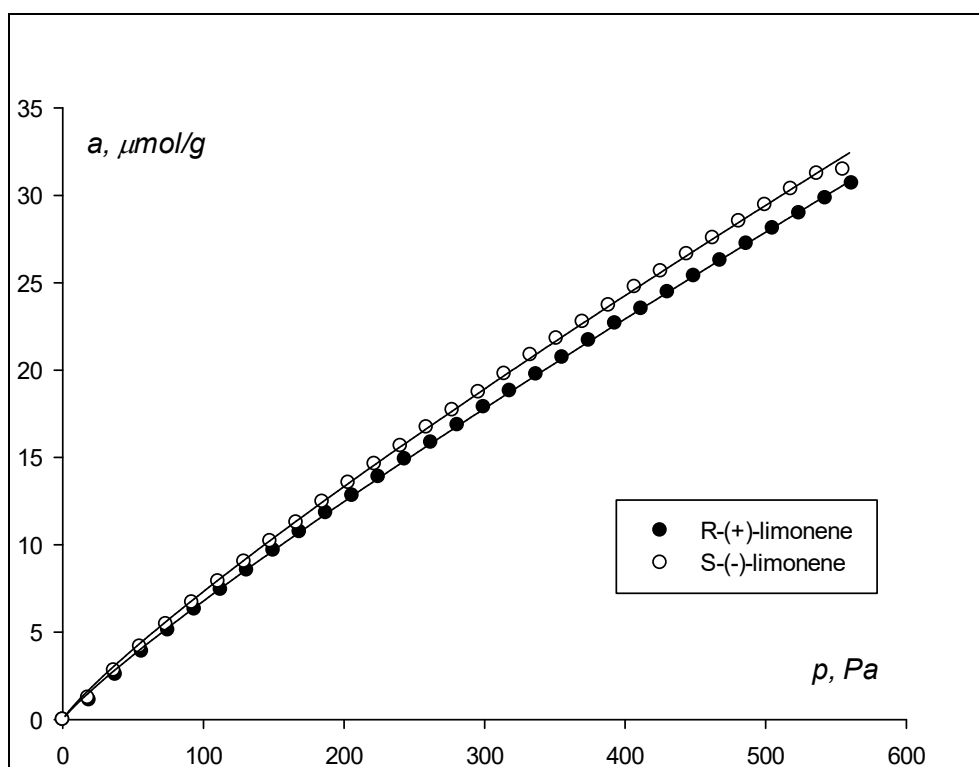


Figure S13. Isotherms of limonene vapors adsorption at 140 °C by γ - glycine crystals.

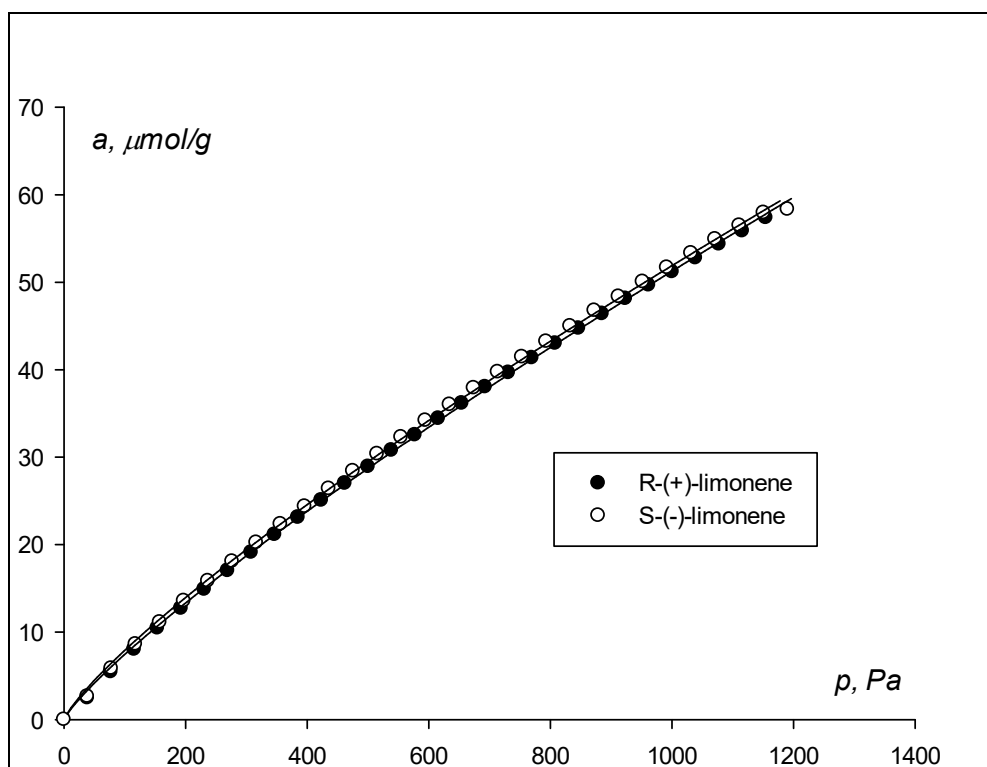


Figure S14. Isotherms of limonene vapors adsorption at 160 °C by γ - glycine crystals.

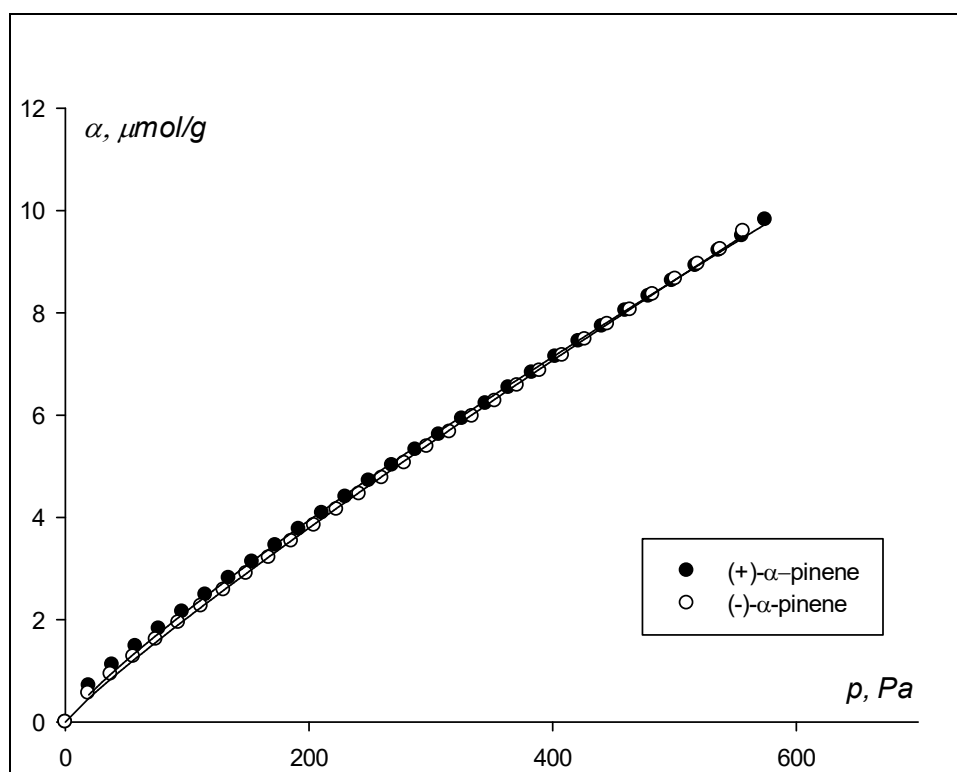


Figure S15. Isotherms of α -pinenes vapors adsorption at 80 °C by γ -glycine crystals.

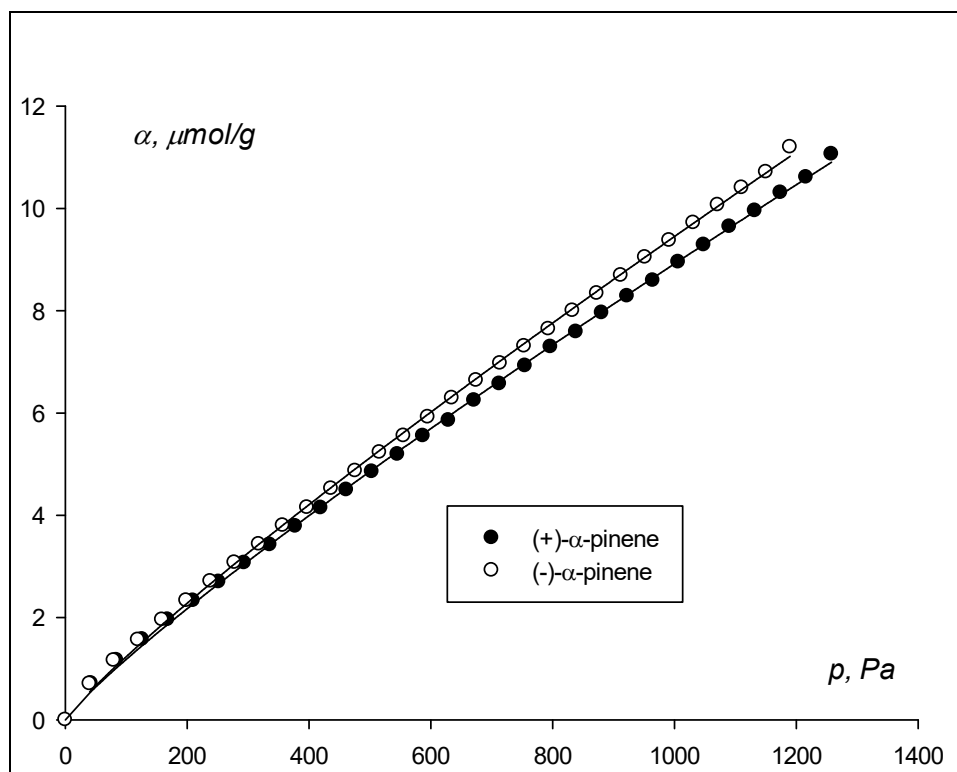


Figure S16. Isotherms of α -pinenes vapors adsorption at 100 °C by γ -glycine crystals.

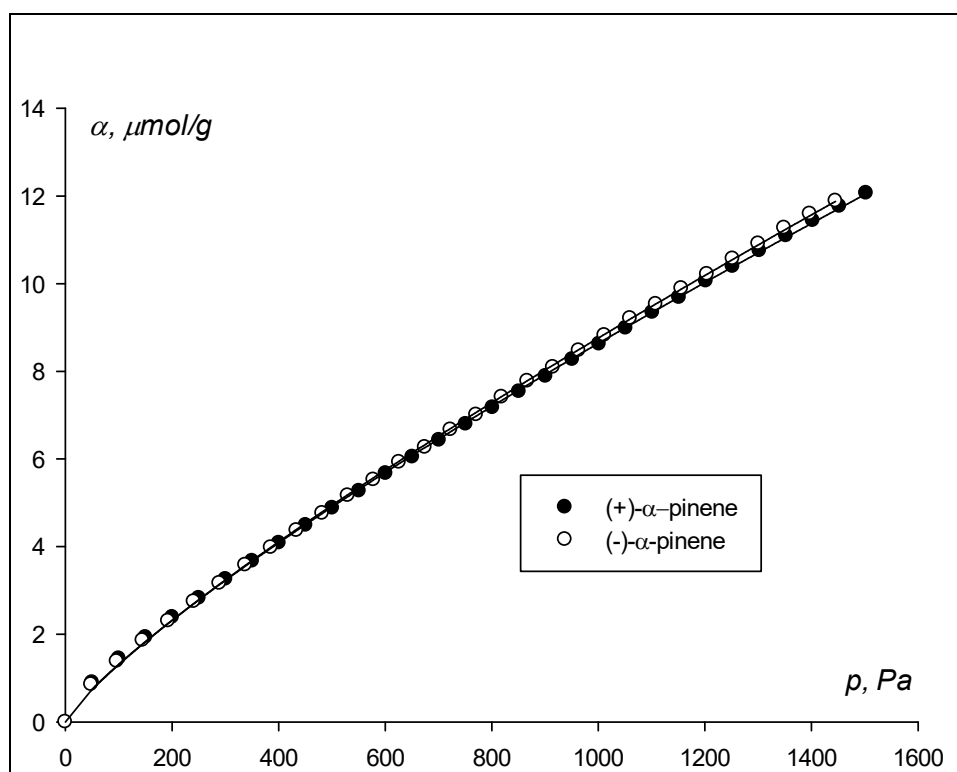


Figure S17. Isotherms of α -pinenes vapors adsorption at 110 °C by γ -glycine crystals.

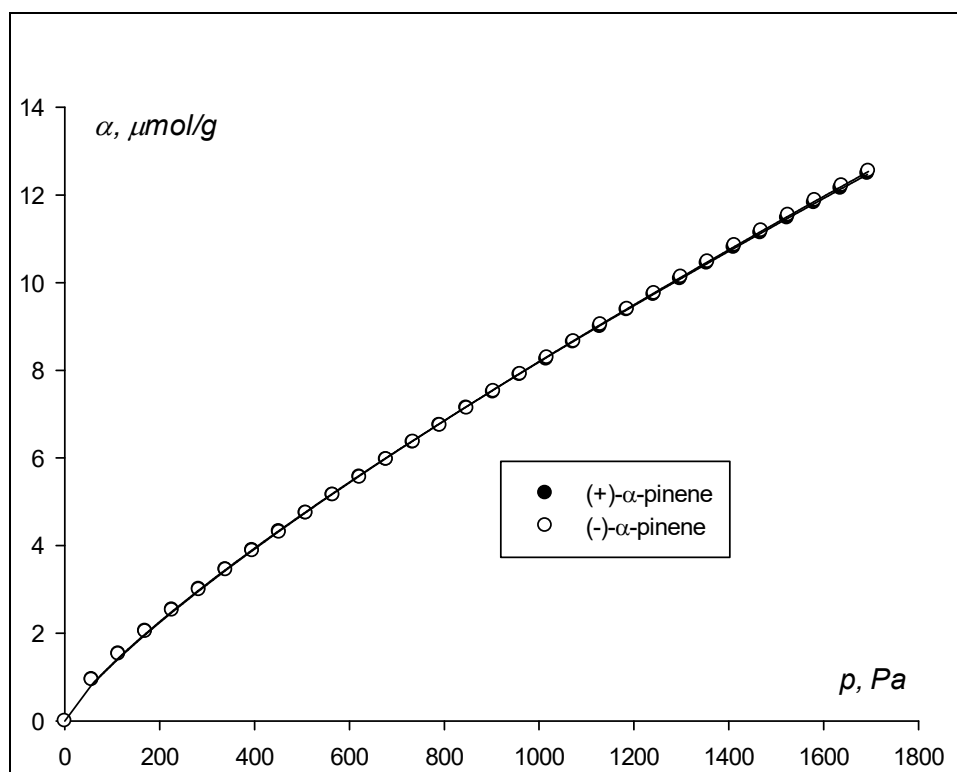


Figure S18. Isotherms of α -pinenes vapors adsorption at 120 °C by γ -glycine crystals.

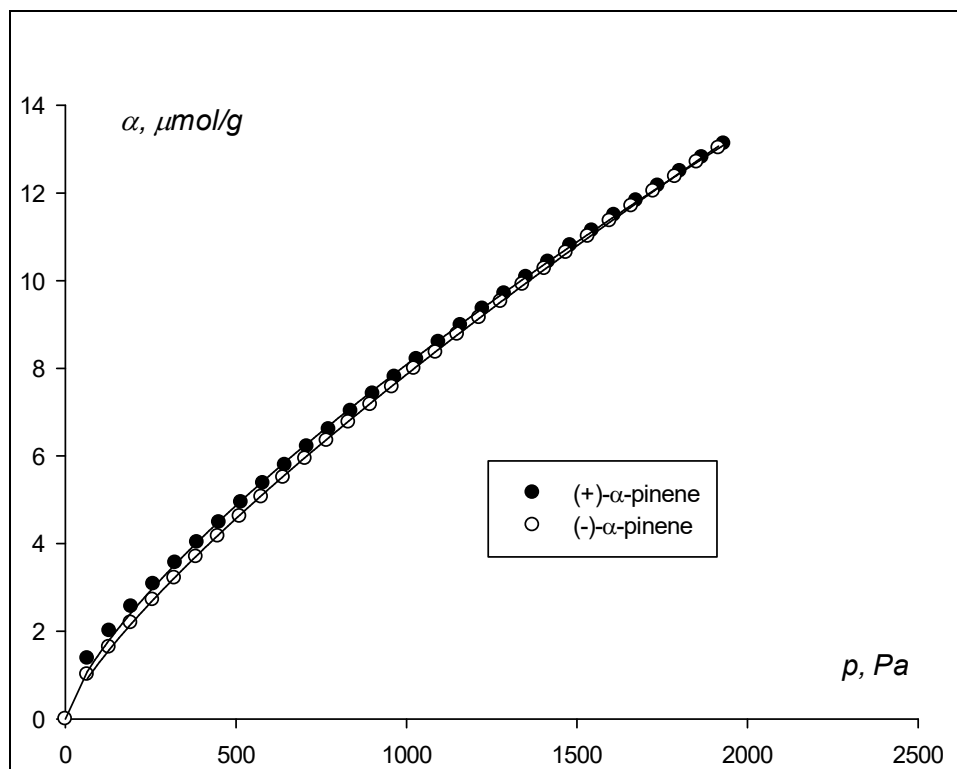


Figure S19. Isotherms of α -pinenes vapors adsorption at 130 °C by γ -glycine crystals.

Table S1. The results of approximation of limonene enantiomers adsorption isotherms on γ - glycine crystals by Freundlich equation.

T, °C	$K_f \cdot 10^1$		n	
	R-(+)	S(-)	R-(+)	S(-)
90	2.3±0.04	2.2±0.04	0.815±0.008	0.823±0,006
100	2.0±0.05	1.9±0.04	0.842±0.009	0.849±0.007
110	1.9±0.04	1.9±0.03	0.871±0.007	0.864±0.013
120	1.5±0.04	1.4±0.04	0.867±0.007	0.870±0.007
130	1.4±0.02	1.3±0.02	0.886±0.004	0.868±0.011

Table S2. The results of approximation of limonene enantiomers adsorption isotherms on CsCuCl₃ crystals by Freundlich equation.

T, °C	K _f *10 ³		n	
	R-(+)	S-(-)	R-(+)	S-(-)
80	3.9±0.2	4.0±0.2	0.87±0.1	0.87±0.1
100	3.6±0.1	3.7±0.1	0.91±0.1	0.91±0.1
120	2.5±0.1	2.3±0.1	0.91±0.1	0.90±0.1
130	2.0±0.1	1.6±0.1	0.90±0.1	0.89±0.1

Table S3. The results of approximation of α -pinene enantiomers adsorption isotherms on CsCuCl₃ crystals by Freundlich equation.

T, °C	K _f *10 ³		n	
	R-(+)	S-(-)	R-(+)	S-(-)
80	2.2±0.1	3.1±0.1	0.860±0.011	0.920±0.004
100	3.4±0.1	3.5±0.1	0.910±0.005	0.930±0.003
110	3.1±0.1	3.6±0.1	0.920±0.005	0.940±0.002
120	2.9±0.1	2.7±0.1	0.910±0.007	0.950±0.006
130	2.6±0.1	2.6±0.1	0.920±0.006	0.910±0.006
140	2.6±0.1	2.5±0.1	0.930±0.005	0.930±0.004
150	2.5±0.1	2.4±0.1	0.940±0.004	0.940±0.003

Table S4. P-values for pairs of points of limonenes adsorption isotherms on γ -glycine crystals at 100 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
0.7	0.2501	10.8	0.3659	16.6	0.0756
1.4	0.0199	11.5	0.4172	17.4	0.3346
7.3	0.1103	12.3	0.2163	18.1	0.4641
8.0	0.2362	13.0	0.1752	18.8	0.5849
8.8	0.8444	13.9	0.1013	19.5	0.6044
9.5	0.8052	14.5	0.0839	20.3	0.7399
10.1	0.5798	15.4	0.0820	21.0	0.7459

Table S5. P-values for pairs of points of limonenes adsorption isotherms on γ -glycine crystals at 110 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
1.0	0.7426	11.1	0.6732	20.2	0.4082
2.0	0.1882	12.1	0.9237	21.2	0.4850
3.0	0.2289	13.1	0.8214	22.2	0.5699
4.0	0.0847	14.1	0.6605	23.2	0.6278
5.0	0.0720	15.1	0.7472	24.3	0.7269
6.0	0.0579	16.2	0.4020	25.3	0.8540
9.1	0.1302	17.2	0.4983	29.3	0.2097
10.1	0.2603	19.2	0.2938	30.3	0.2288

Table S6. P-values for pairs of points of limonenes adsorption isotherms on γ -glycine crystals at 120 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
1.6	0.9437	18.0	0.6124	34.4	0.6010
3.2	0.5587	19.6	0.4483	36.1	0.8243
4.9	0.5589	21.3	0.5018	37.7	0.5999
6.5	0.5604	22.9	0.5850	39.3	0.7415
8.1	0.7526	24.6	0.5959	41.0	0.6745
9.8	0.7815	26.2	0.7793	42.6	0.7424
11.4	0.0007	27.8	0.7390	44.3	0.7449
13.1	0.5286	29.5	0.6854	45.9	0.7370
14.7	0.6622	31.1	0.5285	47.6	0.7757
16.4	0.6041	32.8	0.6866	49.2	0.6580

Table S7. P-values for pairs of points of limonenes adsorption isotherms on γ -glycine crystals at 130 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p
2.0	0.0866	22.2	0.2707
4.0	0.9593	28.3	0.0970
6.2	0.8974	30.4	0.1215
8.0	0.5366	32.4	0.1301
10.1	0.7136	34.4	0.0940
12.1	0.5221	36.4	0.3126
14.1	0.9439	38.5	0.2122
16.2	0.5032	54.7	0.0655
18.2	0.4469	56.7	0.0789
20.2	0.5248	58.8	0.0800

Table S8. P-values for pairs of points of limonenes adsorption isotherms on γ -glycine crystals at 140 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
1.8	0.6567	14.7	0.0066	27.5	0.0050
3.6	0.1291	16.5	0.0025	29.4	0.0091
5.5	0.0299	18.3	0.0061	31.2	0.0089
7.3	0.00881	20.2	0.0053	33.0	0.0101
9.2	0.0058	22.0	0.0059	34.9	0.0095
11.0	0.0060	23.9	0.0058	36.7	0.0088
12.8	0.0017	25.7	0.0058	38.6	0.0083

Table S9. P-values for pairs of points of limonenes adsorption isotherms on γ -glycine crystals at 160 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
3.8	0.1911	26.9	0.0106	100.0	0.4132
7.6	0.0221	30.7	0.0081	103.9	0.2759
11.5	0.0114	34.6	0.0128	107.7	0.9376
15.3	0.0119	38.4	0.0137	111.6	0.9496
19.2	0.0094	80.8	0.6814	115.4	0.9124
23.0	0.0139	88.5	0.5433		

Table S10. P-values for pairs of points of α -pinenes adsorption isotherms on CsCuCl₃ crystals at 80 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
102.5	0.4259	239.1	0.0032	341.6	0.0039
119.5	0.0589	256.2	0.0072	358.6	0.0039
136.6	0.014	273.2	0.0224	375.7	0.0044
153.7	0.0177	290.3	0.0345	392.8	0.0002
170.8	0.0301	307.4	0.0009	409.9	0.0002
222.0	0.0012	324.5	0.0012	427.0	0.0002

Table S11. P-values for pairs of points of α -pinenes adsorption isotherms on CsCuCl₃ crystals at 100 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
138.9	0.0009	312.4	0.0046	490.9	0.0010
156.2	0.0105	334.7	0.0103	513.2	0.0011
178.5	0.0592	357.0	0.0227	535.5	0.0010
200.8	0.0849	379.3	0.0047	557.8	0.0010
223.1	0.0377	401.6	0.0063	580.1	0.0103
245.4	0.0013	423.9	0.0012	602.4	0.0002
267.8	0.0010	446.3	0.0022	624.8	0.0002
290.1	0.0016	468.6	0.0006	647.1	0.0001

Table S12. P-values for pairs of points of α -pinenes adsorption isotherms on CsCuCl₃ crystals at 110 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
30.6	0.0042	367.5	0.0526	643.1	0.0479
61.2	0.0054	398.1	0.0305	673.7	0.0052
91.9	0.0008	428.7	0.0225	704.3	0.0025
122.5	0.0047	459.3	0.0149	734.9	0.0181
153.1	0.0039	490.0	0.0039	765.6	0.0015
183.7	0.0023	520.6	0.0031	796.2	0.0009
214.4	0.0020	551.2	0.0008	826.8	0.0006
306.2	0.0811	581.8	0.0012	857.4	0.0005
336.9	0.0471	612.5	0.0005	888.1	0.0004

Table S13. P-values for pairs of points of α -pinenes adsorption isotherms on CsCuCl₃ crystals at 130 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
221.2	0.0037	516.0	0.2685	810.9	0.0059
258.0	0.0054	552.9	0.3698	847.8	0.0078
294.9	0.0050	589.7	0.9241	884.6	0.0106
331.7	0.0143	626.6	0.6958	921.5	0.0139
368.6	0.0143	663.5	0.5585	958.3	0.0174
405.5	0.0161	700.3	0.2247	995.2	0.0132
442.3	0.0687	737.2	0.0037	1032.1	0.0203
479.2	0.074	774.0	0.0030	1068.9	0.0221

Table S14. P-values for pairs of points of α -pinenes adsorption isotherms on CsCuCl₃ crystals at 140 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
205.2	0.0048	615.6	0.4229	957.6	0.1477
273.6	0.9885	684.0	0.0144	1026.0	0.2079
342.0	0.5083	752.4	0.5109	1094.4	0.0012
410.4	0.1908	820.8	0.0624	1162.8	0.5193
478.8	0.5229	889.2	0.0649	1231.2	0.0163

Table S15. P-values for pairs of points of α -pinenes adsorption isotherms on CsCuCl₃ crystals at 150 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
66.4	0.0051	797.2	0.1138	1262.3	0.0461
132.9	0.2723	863.7	0.0429	1328.7	0.0043
465.1	0.0163	930.1	0.0068	1395.2	0.0033
531.5	0.019	996.6	0.0083	1461.6	0.0037
597.9	0.0251	1063.0	0.0068	1594.5	0.0007
664.4	0.0226	1129.4	0.0061	1660.9	0.0007
730.8	0.0876	1195.9	0.0079	1727.4	0.0007

Table S16. P-values for pairs of points of limonenes adsorption isotherms on CsCuCl₃ crystals at 80 °C ($\alpha = 0.05$).

P,Pa	p	P,Pa	p	P,Pa	p
4.50	0.80	41.05	0.53	102.57	0.10
9.12	0.25	45.60	0.10	107.13	0.11
13.70	0.42	50.17	0.29	111.69	0.13
18.27	0.02	59.28	0.12	116.25	0.11
22.82	0.49	70.64	0.03	120.81	0.14
27.37	0.14	75.20	0.02	125.37	0.13
31.92	0.30	84.33	0.06	129.93	0.13
36.48	0.25	93.44	0.09	134.49	0.11

Table S17. P-values for pairs of points of limonenes adsorption isotherms on CsCuCl₃ crystals at 100 °C ($\alpha = 0.05$).

P,Pa	p	P,Pa	p	P,Pa	p
12.32	1.1*10 ⁻⁶	79.57	1.02*10 ⁻⁶	151.96	9.0*10 ⁻⁸
21.31	9.1*10 ⁻⁶	91.89	3.6*10 ⁻⁷	160.95	9.7*10 ⁻⁸
33.63	2.8*10 ⁻³	106.02	6.4*10 ⁻⁷	173.27	5.5*10 ⁻⁸
45.94	1.6*10 ⁻⁶	115.01	2.8*10 ⁻⁷	185.59	3.4*10 ⁻⁸
54.93	1.2*10 ⁻⁶	127.33	4.5*10 ⁻⁷	194.58	2.9*10 ⁻⁸

Table S18. P-values for pairs of points of limonenes adsorption isotherms on CsCuCl₃ crystals at 120 °C ($\alpha = 0.05$).

P,Pa	p	P,Pa	p	P,Pa	p
37.26	0.0004	204.94	0.0145	409.87	0.7767
55.89	0.0006	260.83	0.6686	428.50	0.6545
74.52	0.0009	279.46	0.6838	447.13	0.2859
93.15	0.0013	298.09	0.7095	465.76	0.4563
111.78	0.0020	316.72	0.7499	484.39	0.1142
130.41	0.0032	335.35	0.0657	503.02	0.0566
149.05	0.0050	353.98	0.0741	521.65	0.1203
167.68	0.0075	372.61	0.0963	540.28	0.1537
186.31	0.0107	391.24	0.0877	558.92	0.1072

Table S19. P-values for pairs of points of limonenes adsorption isotherms on CsCuCl₃ crystals at 130 °C ($\alpha = 0.05$).

P,Pa	p	P,Pa	p	P,Pa	p
29.52	0.1100	328.35	0.4000	566.7	0.1800
55.03	0.0300	355.86	0.3200	611.32	0.2700
82.54	0.0960	383.38	0.2400	638.84	0.3000
110.06	0.0630	410.89	0.2100	666.35	0.2300
177.93	0.2600	460.91	0.2900	693.87	0.2500
205.46	0.2100	488.42	0.2100	721.38	0.2200
232.96	0.1600	515.94	0.2400	748.90	0.2100
305.63	0.2000	543.45	0.1900	776.41	0.2100

Table S20. P-values for pairs of points of limonenes adsorption isotherms on CsCuCl₃ crystals at 150 °C ($\alpha = 0.05$).

P,Pa	p	P,Pa	p	P,Pa	p
38.08	0.0407	412.23	0.3721	754.98	0.5766
76.17	0.0341	450.31	0.3482	793.06	0.8155
114.25	0.3084	488.40	0.3184	831.15	0.8369
152.33	0.1029	526.48	0.4599	869.28	0.8130
190.42	0.2172	564.56	0.4291	907.31	0.6697
228.50	0.1441	564.56	0.4291	945.40	0.7015
266.58	0.3857	602.65	0.5328	983.48	0.7492
304.67	0.3409	640.59	0.8279	1021.56	0.7617
336.06	0.2073	678.82	0.6384	1059.65	0.8180
374.15	0.2846	716.90	0.6623	1097.73	0.8597

Table S21. P-values for pairs of points of menthol adsorption isotherms on silica gel with CsCuCl₃ crystals ($\alpha = 0.05$).

c, mg/L	P	c, mg/L	P	c, mg/L	P
25	$3 \cdot 10^{-8}$	175	0.113	243.75	$3 \cdot 10^{-6}$
50	$5 \cdot 10^{-5}$	200	$5 \cdot 10^{-6}$	250	$2 \cdot 10^{-11}$
100	$2 \cdot 10^{-5}$	225	$3 \cdot 10^{-6}$	300	0.018
150	0.818	237.5	$1 \cdot 10^{-6}$		

Table S22. P-values for pairs of points of α -pinenes adsorption isotherms on γ -glycine crystals at 80 °C ($\alpha = \mathbf{0.05}$).

P, Pa	p	P, Pa	p	P, Pa	p
18.85	0.0455	131.94	0.0203	420.79	0.6273
37.70	0.0317	279.49	0.3303	458.48	0.5282
56.54	0.0254	298.34	0.3500	477.33	0.6441
113.09	0.0237	401.94	0.6293	496.18	0.6781

Table S23. P-values for pairs of points of α -pinenes adsorption isotherms on γ -glycine crystals at 100 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
40.80	0.9541	597.88	0.1234	1059.70	0.0884
81.60	0.9486	747.43	0.1846	1100.50	0.0742
509.41	0.0435	978.14	0.0759	1141.30	0.0827
550.21	0.0471	1018.9	0.0899	1182.10	0.0702

Table S24. P-values for pairs of points of α -pinenes adsorption isotherms on γ -glycine crystals at 110 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
49.25	0.3296	246.25	0.1966	1099.60	0.3934
98.50	0.2588	951.79	0.4092	1148.80	0.3751
147.75	0.2143	1001.00	0.3430	1198.10	0.4221
197.01	0.2031	1050.30	0.3450	1395.10	0.4244

Table S25. P-values for pairs of points of α -pinenes adsorption isotherms on γ -glycine crystals at 120 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
56.45	0.6543	282.22	0.5995	507.99	0.9156
112.89	0.6263	338.66	0.7684	564.44	0.9828
169.33	0.6154	395.11	0.5965	620.88	0.6387
225.78	0.5682	451.55	0.5104	677.32	0.9980

Table S26. P-values for pairs of points of α -pinenes adsorption isotherms on γ -glycine crystals at 130 °C ($\alpha = 0.05$).

P, Pa	p	P, Pa	p	P, Pa	p
64.19	0.2131	320.94	0.1351	577.70	0.0907
128.38	0.1898	385.13	0.1177	641.88	0.0593
192.57	0.1686	449.32	0.1034	834.45	0.0365
258.42	0.1509	513.50	0.0978	898.63	0.0187