

Таблица степени черноты, Росселандова и Планковского среднего
 Таблица из книги Авиловой И.В., Бибермана Л.М. и др. "Оптические свойства горячего воздуха"
 М.: Из-во Наука. 1970, стр. 320

T=20000 K

P=0,001 атм

	1	2	3	4	5	6	7
1	18-09	65-09	35-09	19-07	61-08	25-08	30-08
3	53-09	20-08	11-08	58-07	18-07	74-08	92-08
5	88-09	33-08	18-08	96-07	31-07	12-07	15-07
10	18-08	65-08	35-08	19-06	61-07	25-07	30-07
20	35-08	13-07	71-08	38-06	12-06	50-07	81-07
30	53-08	20-07	11-07	58-06	18-06	74-07	92-07
100	18-07	65-07	35-07	19-05	61-06	25-06	30-06
300	53-07	20-06	11-06	58-05	18-05	74-06	92-06
A	77 02	32 06	85 06	22 08	48 08	22 09	76 08
B	88-10	33-09	18-09	96-08	21-08	12-08	15-08
1	88-10	33-09	18-09	96-08	31-08	12-08	15-08
3	28-09	98-09	53-09	29-07	92-08	37-08	46-08
5	44-09	16-08	88-09	48-07	15-07	62-08	76-08
10	88-09	33-08	18-08	96-07	31-07	12-07	15-07
20	18-08	66-08	35-08	19-06	61-07	25-07	30-07
30	28-08	98-08	53-08	29-06	92-07	37-07	46-07
100	88-08	33-07	18-07	96-06	31-06	12-05	15-06
300	26-07	98-07	53-07	29-05	92-06	37-05	46-06

P=0,01 атм

	1	2	3	4	5	6	7
1	12-07	47-07	37-07	46-06	14-06	62-07	50-06
3	35-07	14-06	11-06	14-05	43-06	19-06	15-05
5	58-07	23-06	18-06	23-05	72-06	31-06	25-05
10	12-06	47-06	37-06	46-05	14-05	62-06	50-05
20	23-06	94-06	74-06	92-05	29-05	12-05	92-05
30	34-06	14-05	11-05	14-04	43-05	19-05	13-04
100	11-05	47-05	37-05	46-04	14-04	62-05	35-04
300	31-05	14-04	11-04	14-03	43-04	19-04	72-04
A	12 01	54 04	16 05	53 06	14 07	74-07	29 07
B	58-08	23-07	18-07	23-06	72-07	31-07	25-06
1	56-08	23-07	18-07	23-06	72-07	31-07	25-06
3	17-07	70-07	55-07	69-06	22-06	93-07	75-06
5	29-07	12-06	92-07	11-05	36-06	16-06	12-05
10	58-07	23-06	18-06	23-05	72-06	31-06	25-05
20	12-06	47-06	37-06	46-05	14-05	62-06	49-05
30	17-06	70-06	55-06	69-05	22-05	93-06	73-05
100	57-06	23-05	18-05	23-04	72-05	31-05	22-04
300	17-05	70-05	55-05	69-04	22-04	93-05	51-04

P=0,03 атм

	1	2	3	4	5	6	7
1	93-07	39-06	33-06	17-05	51-06	25-06	48-05
3	28-06	12-05	99-06	50-05	15-05	75-06	14-04
5	46-06	19-05	16-05	84-05	25-05	12-05	17-04
10	90-06	39-05	33-05	17-04	51-05	25-05	32-04
20	17-05	78-05	66-05	33-04	10-04	50-05	52-04
30	25-05	12-04	99-05	50-04	15-04	75-05	61-04

100	75-05	39-04	30-04	17-03	51-04	25-04	12-03
300	18-04	11-03	78-04	48-03	15-03	75-04	17-03
A	15 00	88 03	21 04	81 05	25 06	15 07	70 06
B	46-07	19-06	17-06	84-06	25-06	12-06	24-05
1	46-07	19-06	16-08	84-06	25-06	12-06	24-05
3	14-06	58-06	50-06	25-05	76-06	37-06	72-05
5	23-06	97-06	83-06	42-05	13-05	62-06	12-04
10	46-06	19-05	16-05	84-05	25-05	12-05	21-04
20	91-06	39-05	33-05	17-04	51-05	25-05	37-04
30	14-05	58-05	50-05	25-04	76-05	37-05	50-04
100	42-05	19-04	16-04	84-04	25-04	12-04	97-04
300	11-04	58-04	46-04	25-03	76-04	37-04	15-03

P=0,1 атм

	1	2	3	4	5	6	7
1	94-06	41-05	36-05	74-05	21-05	13-05	38-04
3	26-05	12-04	11-04	22-04	62-05	40-05	68-04
5	42-05	20-04	16-04	37-04	10-04	67-05	85-04
10	78-05	41-04	36-04	74-04	21-04	13-04	12-03
20	14-04	81-04	66-04	15-03	42-04	27-04	16-03
30	19-04	12-03	92-04	22-03	62-04	40-04	19-03
100	45-04	39-03	26-03	71-03	20-03	13-03	31-03
300	81-04	11-02	67-03	20-02	59-03	40-03	52-03
A	14-01	66 02	20 03	86 04	30 05	22 06	12 06
B	49-06	20-05	18-05	37-05	10-05	67-06	27-04
1	48-06	20-05	18-05	37-05	10-05	67-06	26-04
3	14-05	62-05	55-05	11-04	31-05	20-05	61-04
5	23-05	10-04	91-05	16-04	52-05	34-05	84-04
10	44-05	20-04	18-04	37-04	10-04	67-05	12-03
20	82-05	41-04	36-04	74-04	21-04	13-04	16-03
30	12-04	62-04	52-04	11-03	31-04	20-04	18-03
100	31-04	20-03	15-03	37-03	10-03	67-04	28-03
300	64-04	59-03	39-03	11-02	31-03	20-03	43-03

P=0,3 атм

	1	2	3	4	5	6	7
1	69-05	36-04	32-04	36-04	89-05	81-05	14-03
3	17-04	11-03	92-04	11-03	27-04	24-04	23-03
5	25-04	18-03	15-03	18-03	45-04	40-04	23-03
10	41-04	34-03	23-03	35-03	89-04	81-04	40-03
20	62-04	66-03	50-03	70-03	18-03	16-03	56-03
30	76-04	95-03	71-03	10-02	28-03	24-03	70-03
100	11-03	26-02	19-02	33-02	86-03	81-03	14-02
300	12-03	67-02	40-02	86-02	24-02	24-02	26-02
A	16-02	73 01	22 02	10 04	38 04	31 05	18 05
B	42-05	18-04	16-04	18-04	45-05	40-05	24-03
1	39-05	18-04	16-04	18-04	45-05	40-05	13-03
3	10-04	54-04	49-04	54-04	13-04	12-04	22-03
5	16-04	89-04	78-04	89-04	22-04	20-04	26-03
10	28-04	18-03	14-03	18-03	45-04	40-04	35-03
20	46-04	35-03	26-03	36-03	89-04	81-04	45-03
30	59-04	52-03	37-03	53-03	13-03	12-03	54-03
100	10-03	16-02	10-02	17-02	44-03	40-03	96-03
300	12-03	40-02	26-02	49-02	13-02	12-02	19-02

P=1 атм

	1	2	3	4	5	6	7
1	42-04	36-03	32-03	26-03	58-04	72-04	68-03
3	77-04	99-03	91-03	76-03	18-03	21-03	12-02
5	95-04	15-02	14-02	13-02	29-03	36-03	15-02
10	11-03	27-02	23-02	25-02	58-03	71-03	23-02
20	12-03	45-02	36-02	50-02	11-02	14-02	34-02
30	12-03	58-02	46-02	71-02	17-03	21-02	43-02
100	12-03	10-01	89-02	19-01	53-02	70-02	85-02
300	12-03	13-01	13-01	43-01	14-01	20-01	15-01
A	15-03	66 00	19 01	95 02	37 03	32 04	16 04
B	44-04	19-03	17-03	13-03	29-04	36-04	26-02
1	29-04	18-03	16-03	13-03	29-04	36-04	51-03
3	61-04	54-03	43-03	39-03	88-04	11-03	89-03
5	50-04	88-03	68-03	66-03	15-03	18-03	12-02
10	10-03	17-02	12-02	13-02	29-03	36-03	17-02
20	12-03	30-02	22-02	25-02	58-03	72-03	24-02
30	12-03	41-02	33-02	38-02	87-03	11-02	40-02
100	12-03	87-02	67-02	12-01	28-02	38-02	60-02
300	12-03	12-01	11-01	30-01	81-02	10-01	11-01

P=3 атм

	1	2	3	4	5	6	7
1	11-03	23-02	23-02	18-02	38-03	55-03	37-02
3	12-03	51-02	44-02	51-02	11-02	16-02	58-02
5	12-03	70-02	60-02	83-02	19-02	27-02	75-02
10	12-03	97-02	87-02	15-01	37-02	54-02	10-01
20	12-03	12-01	12-01	26-01	71-02	11-01	14-01
30	12-03	13-01	13-01	35-01	10-01	16-01	17-01
100	12-03	14-01	14-01	71-01	28-01	48-01	35-01
300	12-03	14-01	14-01	10 00	60-01	12 00	64-01
A	19-04	76-01	20 00	11 02	47 02	40 03	17 03
B	35-03	15-02	13-02	91-03	19-03	28-03	21-01
1	96-04	14-02	11-02	90-03	19-03	28-03	25-02
3	12-03	35-02	28-02	26-02	59-03	83-03	47-02
5	12-03	51-02	40-02	43-02	96-03	14-02	56-02
10	12-03	78-02	63-02	84-02	19-02	28-02	82-02
20	12-03	11-01	90-02	16-01	39-02	55-02	10-01
30	12-03	12-01	11-01	22-01	56-02	82-02	12-01
100	12-03	14-01	14-01	55-01	17-01	26-01	25-01
300	12-03	14-01	14-01	92-01	43-01	74-01	48-01

P=10 атм

	1	2	3	4	5	6	7
1	12-03	92-02	88-02	12-01	29-02	47-02	13-01
3	12-03	13-01	12-01	29-01	82-02	14-01	23-01
5	12-03	14-01	13-01	42-01	13-01	22-01	30-01
10	12-03	14-01	14-01	64-01	24-01	42-01	43-01
20	12-03	14-01	14-01	87-01	40-01	75-01	61-01
30	12-03	14-01	14-01	98-01	52-01	10 00	74-01
100	12-03	14-01	14-01	11 00	96-01	23 00	12 00
300	12-03	14-01	14-01	11 00	11 00	34 00	14 00
A	23-05	78-02	18-01	13 01	56 01	47 02	15 02
B	30-02	12-01	11-01	71-02	15-02	24-02	18 00
1	12-03	73-02	64-02	67-02	15-02	24-02	10-01
3	12-03	12-01	10-01	18-01	44-02	70-02	17-01

5	12-03	13-01	12-01	28-01	72-02	12-01	22-01
10	12-03	14-01	14-01	48-01	14-01	23-01	32-01
20	12-03	14-01	14-01	72-01	26-01	44-01	46-01
30	12-03	14-01	14-01	86-01	36-01	64-01	57-01
100	12-03	14-01	14-01	11 00	81-01	17 00	10 00
300	12-03	14-01	14-01	11 00	11 00	30 00	14 00

P=30 атм

	1	2	3	4	5	6	7
1	12-03	14-01	14-01	48-01	19-01	41-01	46-01
3	12-03	14-01	14-01	85-01	44-01	10 00	76-01
5	12-03	14-01	14-01	10 00	62-01	15 00	93-01
10	12-03	14-01	14-01	11 00	88-01	22 00	12 00
20	12-03	14-01	14-01	11 00	11 00	30 00	14 00
30	12-03	14-01	14-01	11 00	11 00	34 00	14 00
100	12-03	14-01	14-01	11 00	11 00	36 00	14 00
300	12-03	14-01	14-01	11 00	11 00	36 00	14 00
A	40-06	12-02	25-02	19 00	70 00	48 01	14 01
B	17-01	70-01	58-01	43-01	11-01	23-01	11 01
1	12-03	13-01	13-01	33-01	11-01	23-01	35-01
3	12-03	14-01	14-01	70-01	29-01	63-01	61-01
5	12-03	14-01	14-01	88-01	45-01	99-01	77-01
10	12-03	14-01	14-01	10 00	71-01	17 00	10 00
20	12-03	14-01	14-01	11 00	97-01	26 00	12 00
30	12-03	14-01	14-01	11 00	11 00	30 00	13 00
100	12-03	14-01	14-01	11 00	11 00	36 00	14 00
300	13-03	14-01	14-01	11 00	11 00	36 00	14 00

P=100 атм

	1	2	3	4	5	6	7
1	12-03	14-01	14-01	10 00	78-01	21 00	12 00
3	12-03	14-01	14-01	11 00	11 00	33 00	14 00
5	12-03	14-01	14-01	11 00	11 00	36 00	14 00
10	12-03	14-01	14-01	11 00	11 00	36 00	14 00
20	12-03	14-01	14-01	11 00	11 00	36 00	14 00
30	12-03	14-01	14-01	11 00	11 00	36 00	14 00
100	12-03	14-01	14-01	11 00	11 00	36 00	14 00
300	12-03	14-01	14-01	11 00	11 00	36 00	14 00
A	74-07	22-03	41-03	32-01	90-01	53 00	13 00
B	92-01	37 00	26 00	24 00	87-01	22 00	53 01
1	12-03	14-01	14-01	94-01	60-01	16 00	10 00
3	12-03	14-01	14-01	11 00	10 00	29 00	14 00
5	12-03	14-01	14-01	11 00	11 00	34 00	14 00
10	12-03	14-01	14-01	11 00	11 00	36 00	14 00
20	12-03	14-01	14-01	11 00	11 00	36 00	14 00
30	12-03	14-01	14-01	11 00	11 00	36 00	14 00
100	12-03	14-01	14-01	11 00	11 00	36 00	14 00
300	12-03	14-01	14-01	11 00	11 00	36 00	14 00

8	9	10	Сумма
97-08	31-04	80-04	11-03
29-07	53-04	15-03	20-03
48-07	62-04	20-03	26-03
97-07	74-04	21-03	28-03
19-06	85-04	25-03	34-03
29-06	91-04	27-03	36-03
97-06	11-03	31-03	49-03
29-05	12-03	34-03	43-03
59 08	16 01	53 07	44 09
49-08	28-04	77-04	10-03
48-08	21-04	54-04	76-04
14-07	43-04	11-03	15-03
24-07	54-04	14-03	20-03
48-07	64-04	16-03	25-03
97-07	81-04	23-03	31-03
14-06	87-04	25-03	34-03
48-05	10-03	30-03	40-03
14-05	12-03	34-03	46-03

8	9	10	Сумма
17-05	88-04	18-03	27-03
52-05	10-03	23-03	34-03
83-05	11-03	26-03	39-03
16-04	12-03	30-03	45-03
29-04	13-03	33-03	52-03
40-04	14-03	36-03	58-03
10-03	18-03	46-03	86-03
19-03	27-03	68-03	14-02
22 07	87 05	28 05	14 08
87-06	65-03	76-03	14-02
86-06	84-04	14-03	23-03
26-05	10-03	20-03	31-03
43-05	11-03	24-03	35-03
84-05	12-03	28-03	41-03
16-04	13-03	31-03	47-03
24-04	13-03	33-03	51-03
65-04	16-03	41-03	70-03
14-03	22-03	54-03	11-02

8	9	10	Сумма
14-04	11-03	22-03	35-03
38-04	13-03	26-03	47-03
57-04	14-03	32-03	56-03
93-04	17-03	40-03	72-03
15-03	22-03	50-03	99-03
20-03	25-03	59-03	12-02

34-03	43-03	11-02	23-02
63-03	80-03	24-02	49-02
49-06	11-05	36-04	30-07
84-05	22-02	22-02	44-02
83-05	10-03	16-03	29-03
23-04	12-03	24-03	40-03
36-04	13-03	28-03	47-03
64-04	15-03	34-03	59-03
10-03	19-03	41-03	77-03
14-03	21-03	47-03	92-03
28-03	34-03	80-03	17-02
58-03	58-03	16-02	33-02

8	9	10	Сумма
10-03	16-03	33-03	65-03
21-03	25-03	56-03	12-02
30-03	32-03	77-03	16-02
41-03	47-03	12-02	24-02
59-03	71-03	20-02	38-02
73-03	91-03	27-02	51-02
14-02	22-02	71-02	13-01
27-02	53-02	16-01	30-01
78-05	88-03	30-03	46-06
94-04	76-02	75-02	15-01
75-04	15-03	25-03	51-03
16-03	21-03	41-03	88-03
22-03	26-03	54-03	12-02
34-03	36-03	81-03	17-02
50-03	51-03	13-02	20-02
62-03	65-03	17-02	34-02
11-02	14-02	42-02	80-02
20-02	31-02	10-01	18-01

8	9	10	Сумма
51-03	44-03	11-02	23-02
87-03	93-03	25-02	49-02
12-02	14-02	39-02	74-02
18-02	24-02	68-02	13-01
27-02	39-02	12-01	21-01
35-02	52-02	16-01	29-01
77-02	12-01	34-01	64-01
14-01	23-01	52-01	12-00
10-05	81-02	32-02	64-05
84-03	23-01	23-01	47-01
36-03	34-03	57-03	16-02
70-03	63-03	15-02	32-02
93-03	86-03	22-02	46-02
13-02	14-02	39-02	76-02
19-02	23-02	70-02	13-01
24-02	31-02	96-02	17-01
49-02	80-02	25-01	44-01
94-02	14-01	45-01	87-01

8	9	10	Сумма
36-02	27-02	75-02	16-01
58-02	54-02	17-01	34-01
76-02	87-02	24-01	47-01
11-01	14-01	36-01	77-01
16-01	20-01	46-01	10 00
20-01	25-01	14-01	12 00
35-01	40-01	61-01	20 00
51-01	47-01	61-01	28 00
79 03	72 05	28 01	61 04
89-02	79-01	78-01	17 00
18-02	13-02	42-02	87-02
36-02	36-02	11-01	20-01
49-02	54-02	16-01	30-01
78-02	92-02	27-01	50-01
11-01	15-01	40-01	77-01
14-01	15-01	47-01	91-01
28-01	35-01	50-01	16 00
44-01	45-01	61-01	23 00

8	9	10	Сумма
13-01	12-01	32-01	69-01
25-01	24-01	51-01	12 00
31-01	30-01	58-01	15 00
39-01	39-01	61-01	19 00
50-01	45-01	61-01	24 00
56-01	47-01	61-01	27 00
76-01	48-01	61-01	40 00
95-01	49-01	61-01	58 00
69 02	78 00	33 00	70 03
72-01	24 00	25 00	59 00
83-02	83-02	24-01	48-01
18-01	13-01	44-01	95-01
24-01	24-01	52-01	12 00
32-01	34-01	59-01	16 00
42-01	42-01	61-01	20 00
48-01	45-01	61-01	27 00
68-01	48-01	61-01	33 00
85-01	49-01	61-01	41 00

8	9	10	Сумма
48-01	40-01	61-01	20 00
68-01	47-01	61-01	28 00
75-01	48-01	61-01	32 00
85-01	49-01	61-01	40 00
97-01	48-01	61-01	50 00
10 00	49-01	61-01	57 00
12 00	49-01	61-01	61 00
13 00	49-01	61-01	97 00
43 01	71-01	34-01	73 02
63 00	87 00	95 00	27 01
40-01	35-01	59-01	17 00
59-01	45-01	61-01	24 00

67-01	47-01	61-01	27 00
77-01	48-01	61-01	33 00
88-01	48-01	61-01	41 00
96-01	48-01	61-01	48 00
12 00	48-01	61-01	72 00
12 00	48-01	51-01	93 00

8	9	10	Сумма
87-01	48-01	61-01	38 00
11 00	48-01	61-01	55 00
11 00	48-01	61-01	65 00
12 00	48-01	61-01	80 00
13 00	48-01	61-01	92 00
13 00	48-01	61-01	97 00
13 00	48-01	61-01	99 00
14 00	48-01	61-01	99 00
41 03	10-01	57-02	76 01
37 01	29 01	33 01	11 02

79-01	49-01	61-01	32 00
98-01	48-01	61-01	46 00
11 00	48-01	61-01	55 00
12 00	48-01	61-01	70 00
12 00	48-01	61-01	85 00
12 00	48-01	61-01	92 00
13 00	48-01	61-01	95 00
13 00	48-01	61-01	99 00

8	9	10	Сумма
12 00	48-01	61-01	78 00
13 00	48-01	61-01	96 00
13 00	48-01	61-01	99 00
13 00	48-01	61-01	99 00
13 00	48-01	61-01	99 00
13 00	48-01	61-01	99 00
13 00	48-01	61-01	99 00
13 00	48-01	51-01	99 00
32-01	14-02	94-03	82 00
18 02	98 01	14 02	46 02
12 00	48-01	61-01	67 00
12 00	48-01	61-01	90 30
13 00	48-01	61-01	96 00
13 00	48-01	61-01	99 00
13 00	48-01	61-01	99 00
13 00	48-01	61-01	99 00
13 00	48-01	61-01	99 00
13 00	48-01	61-01	99 00

