

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=9000 K

P=0,001 атм

	1	2	3	4	5	6	7
1	38-08	37-07	12-06	22-07	18-08	99-09	33-05
3	11-07	11-06	35-06	65-07	55-08	30-08	58-05
5	19-07	19-06	58-06	11-06	91-08	50-08	72-05
10	36-07	37-06	12-05	22-06	18-07	10-07	92-05
20	76-07	75-06	23-05	43-06	37-07	20-07	11-04
30	11-06	11-05	35-05	65-06	56-07	30-07	11-04
100	38-06	37-05	11-04	22-05	19-06	10-06	14-04
300	11-05	11-04	30-04	65-05	56-06	30-06	16-04
A	37 03	10 07	27 07	41 08	48 08	12 09	12 08
B	19-08	19-07	58-07	11-07	10-08	51-09	34-05
1	19-08	19-07	58-07	11-07	10-08	51-09	23-05
3	57-08	56-07	18-06	33-07	31-08	15-08	45-05
5	95-08	93-07	29-06	54-07	52-08	25-08	58-05
10	19-07	19-06	58-06	11-06	10-07	51-08	79-05
20	38-07	37-06	12-05	22-06	21-07	10-07	99-05
30	57-07	56-06	19-05	33-06	31-07	16-07	11-04
100	19-06	19-05	57-05	11-05	10-06	51-07	13-04
300	57-06	56-05	16-04	33-05	31-06	15-06	15-04

P=0,01 атм

	1	2	3	4	5	6	7
1	49-07	48-06	15-05	30-06	56-07	25-07	96-05
3	15-06	14-05	45-05	90-06	17-06	74-07	12-04
5	24-06	24-05	75-05	15-05	28-06	12-06	13-04
10	49-06	48-05	14-04	30-05	56-06	25-06	14-04
20	98-06	96-05	26-04	60-05	11-05	50-06	16-04
30	15-05	14-04	35-04	90-05	17-05	74-06	17-04
100	48-05	48-04	92-04	28-04	56-06	25-05	23-04
300	14-04	14-03	22-03	77-04	17-04	74-05	32-04
A	28 02	79 05	19 06	23 07	19 07	50 07	32 06
B	24-07	24-06	75-06	15-06	30-07	13-07	43-04
1	24-07	24-06	75-06	15-06	30-07	13-07	86-05
3	74-07	72-06	22-05	46-06	90-07	39-07	11-04
5	12-06	12-05	38-05	76-06	15-06	65-07	13-04
10	24-06	24-05	75-05	15-05	30-06	13-06	14-04
20	49-06	48-05	15-04	31-05	60-06	26-06	16-04
30	74-06	72-05	22-04	46-05	90-06	39-06	17-04
100	24-05	24-04	62-04	15-04	30-05	13-05	22-04
300	73-05	72-04	14-03	44-04	90-05	39-05	29-04

P=0,03 атм

	1	2	3	4	5	6	7
1	18-06	18-05	54-05	12-05	30-06	13-06	13-04
3	55-06	52-05	16-04	35-05	89-06	39-06	15-04
5	91-06	88-05	24-04	59-05	15-05	84-06	17-04
10	18-05	18-04	42-04	12-04	30-05	13-05	20-04
20	36-05	35-04	77-04	24-04	60-05	26-05	24-04
30	54-05	52-04	10-03	35-04	89-05	39-05	28-04

100	17-04	17-03	25-03	10-03	30-04	13-04	44-04
300	48-04	52-03	59-03	28-03	89-04	39-04	73-04
A	76 01	21 05	48 05	51 08	37 06	93 06	47 05
B	91-07	88-06	27-05	60-06	16-06	70-07	16-03
1	91-07	88-06	27-05	60-06	16-06	70-07	12-04
3	27-06	26-05	80-05	18-05	47-06	21-06	15-04
5	46-06	44-05	13-04	30-05	79-06	35-06	17-04
10	91-06	88-05	26-04	60-05	16-05	70-06	20-04
20	18-05	18-04	48-04	12-04	32-05	14-05	24-04
30	27-05	26-04	69-04	18-04	47-05	21-05	26-04
100	90-05	88-04	17-03	58-04	16-04	70-05	38-04
300	26-04	26-03	38-03	16-03	47-04	21-04	53-04

P=0,1 атм

	1	2	3	4	5	6	7
1	68-06	62-05	19-04	47-05	18-06	86-06	18-04
3	20-05	19-04	47-04	14-04	55-05	26-06	24-04
5	33-05	31-04	73-04	24-04	91-05	43-05	29-04
10	65-05	62-04	12-03	47-04	18-04	86-05	38-04
20	13-04	12-03	21-03	89-04	38-04	17-04	52-04
30	19-04	19-03	27-03	13-03	55-04	26-04	63-04
100	57-04	62-03	70-03	39-03	18-03	86-04	12-03
300	15-03	18-02	13-02	11-02	54-03	26-03	23-03
A	21 01	56 04	11 05	10 06	63 05	14 06	61 04
B	33-06	31-05	94-05	24-05	96-06	47-06	56-03
1	33-06	31-05	94-05	24-05	96-06	47-06	18-04
3	10-05	94-05	28-04	74-05	29-05	14-05	23-04
5	16-05	16-04	45-04	12-04	48-05	23-05	27-04
10	33-05	31-04	82-04	24-04	96-05	47-05	33-04
20	66-05	62-04	14-03	49-04	19-04	94-05	43-04
30	98-05	94-04	19-03	72-04	29-04	14-04	51-04
100	31-04	31-03	45-03	22-03	96-04	47-04	88-04
300	67-04	93-03	10-02	62-03	29-03	14-03	16-03

P=0,3 атм

	1	2	3	4	5	6	7
1	22-05	20-04	58-04	18-04	98-05	53-05	32-04
3	64-05	59-04	13-03	53-04	29-04	16-04	51-04
5	10-04	98-04	20-03	89-04	49-04	26-04	66-04
10	20-04	20-03	33-03	17-03	98-04	53-04	96-04
20	39-04	39-03	53-03	32-03	20-03	11-03	14-03
30	56-04	58-03	73-03	46-03	29-03	16-03	13-03
100	16-03	19-02	20-02	15-02	98-03	53-03	41-03
300	36-03	53-02	49-02	43-02	29-02	16-02	80-03
A	64 00	16 04	28 04	23 05	12 05	24 05	85 03
B	11-05	99-05	29-04	94-05	51-05	29-05	17-02
1	11-05	99-05	23-04	94-05	51-05	29-05	28-04
3	32-05	30-04	81-04	28-04	15-04	88-05	42-04
5	54-05	49-04	12-03	47-04	26-04	15-04	52-04
10	11-04	99-04	21-03	94-04	51-04	29-04	72-04
20	21-04	20-03	36-03	18-03	10-03	59-04	10-03
30	31-04	30-03	48-03	27-03	15-03	88-04	13-03
100	94-04	98-03	12-02	83-03	51-03	29-03	26-03
300	24-03	29-02	29-02	24-02	15-02	88-03	55-03

P=1 атм

	1	2	3	4	5	6	7
1	61-05	70-04	18-03	82-04	64-04	44-04	88-04
3	23-04	21-03	38-03	24-03	19-03	13-03	17-03
5	37-04	35-03	57-03	41-03	32-03	22-03	23-03
10	70-04	69-03	97-03	76-03	64-03	44-03	39-03
20	13-03	14-02	17-02	15-02	13-02	88-03	61-03
30	18-03	20-02	23-02	22-02	19-02	13-02	78-03
100	43-03	62-02	62-02	70-02	61-02	43-02	19-02
300	79-03	18-01	14-01	20-01	17-01	12-01	41-02
A	17 00	40 03	50 03	40 04	18 04	31 04	85 02
B	41-05	35-04	10-03	44-04	33-04	24-04	57-02
1	41-05	35-04	97-04	44-04	32-04	24-04	65-04
3	12-04	11-03	24-03	13-03	98-04	73-04	12-03
5	20-04	18-03	36-03	22-03	16-03	12-03	16-03
10	39-04	35-03	61-03	43-03	32-03	24-03	24-03
20	74-04	70-03	10-02	84-03	65-03	48-03	43-03
30	10-03	10-02	14-02	12-02	98-03	72-03	53-03
100	29-03	34-02	38-02	40-02	32-02	24-02	11-02
300	62-03	96-02	94-02	12-01	95-02	71-02	27-02

P=3 атм

	1	2	3	4	5	6	7
1	29-04	23-03	46-03	35-03	35-03	34-03	31-03
3	75-04	68-03	11-02	10-02	10-02	10-02	68-03
5	12-03	11-02	16-02	17-02	17-02	17-02	96-03
10	20-03	22-02	29-02	33-02	34-02	33-02	16-02
20	34-03	42-02	50-02	65-02	67-02	65-02	27-02
30	45-03	61-02	69-02	96-02	99-02	95-02	36-02
100	66-03	17-01	17-01	30-01	29-01	26-01	76-02
300	12-02	38-01	35-01	79-01	68-01	64-01	11-01
A	47-01	11 03	12 03	77 03	30 03	45 03	96 01
B	15-04	12-03	31-03	20-03	18-03	18-03	17-01
1	14-04	12-03	27-03	20-03	18-03	18-03	20-03
3	42-04	35-03	66-03	59-03	53-03	54-03	47-03
5	67-04	58-03	10-02	97-03	89-03	89-03	62-03
10	12-03	11-02	13-02	19-02	18-02	18-02	99-03
20	22-03	23-02	31-02	38-02	35-02	36-02	16-01
30	30-03	34-02	43-02	56-02	52-02	52-02	24-02
100	69-03	10-01	11-01	18-01	17-01	17-01	56-02
300	11-02	27-01	26-01	51-01	45-01	44-01	10-01

P=10 атм

	1	2	3	4	5	6	7
1	11-03	87-03	15-02	19-02	22-02	32-02	15-02
3	26-03	25-02	37-02	56-02	63-02	91-02	35-02
5	37-03	41-02	56-02	90-02	10-01	14-01	49-02
10	58-03	78-02	97-02	17-01	19-01	26-01	74-02
20	82-03	14-01	16-01	33-01	35-01	46-01	10-01
30	97-03	20-01	22-01	48-01	48-01	61-01	11-01
100	12-02	46-01	47-01	13 00	11 00	12 00	14-01
300	12-02	79-01	72-01	26 00	16 00	17 00	14-01
A	10-01	21 02	20 02	15 03	82 02	76-02	86 00
B	69-04	45-03	11-02	11-02	11-02	16-02	51-01
1	62-04	45-03	91-03	11-02	11-02	16-02	95-03
3	16-03	14-02	23-02	32-02	33-02	48-02	24-02

5	25-03	22-02	35-02	53-02	54-02	80-02	34-02
10	42-03	44-02	62-02	10-01	11-01	15-01	55-02
20	65-03	65-02	11-01	20-01	21-01	29-01	85-02
30	81-03	12-01	15-01	30-01	30-01	40-01	10-01
100	12-02	34-01	35-01	90-01	81-01	95-01	14-01
300	12-02	86-01	61-01	21 00	15 00	16 00	14-01

P=30 атм

	1	2	3	4	5	6	7
1	37-03	32-02	48-02	86-02	10-01	20-01	61-02
3	71-03	90-02	11-01	25-01	27-01	48-01	10-01
5	89-03	14-01	17-01	40-01	42-01	67-01	11-01
10	11-02	25-01	29-01	73-01	70-01	98-01	13-01
20	12-02	41-01	44-01	13 00	11 00	13 03	14-01
30	12-02	52-01	54-01	17 00	13 00	15 00	14-01
100	12-02	89-01	80-01	32 00	18 00	18 00	14-01
300	12-02	10 00	86-01	40 00	19 00	19 00	14-01
A	22-02	43 01	36 01	26 02	88 01	76 01	12 00
B	33-03	18-02	34-02	52-02	55-02	12-01	13 00
1	24-03	18-02	28-02	51-02	54-02	11-01	43-02
3	54-03	51-02	72-02	15-01	16-01	30-01	87-02
5	72-03	84-02	11-01	25-01	25-01	46-01	11-01
10	98-03	16-01	19-01	48-01	46-01	75-01	13-01
20	12-02	28-01	32-01	90-01	80-01	11 00	14-01
30	12-02	39-01	41-01	13 00	10 00	13 00	14-01
100	12-02	78-01	72-01	28 00	17 00	18 00	14-01
300	12-02	10 00	86-01	39 00	19 00	19 00	14-01

P=100 атм

	1	2	3	4	5	6	7
1	10-02	15-01	18-01	45-01	45-01	87-01	12-01
3	12-02	35-01	40-01	12 00	97-01	14 00	14-01
5	12-02	50-01	50-01	17 00	13 00	16 00	14-01
10	12-02	72-01	69-01	26 00	16 00	18 00	14-01
20	12-02	92-01	82-01	34 00	18 00	19 00	14-01
30	12-02	10 00	85-01	38 00	19 00	19 00	14-01
100	12-02	10 00	85-01	40 00	19 00	19 00	14-01
300	12-02	10 00	86-01	40 00	19 00	19 00	14-01
A	31-03	63 00	60 00	44 01	16 01	99 00	16-01
B	23-02	96-02	12-01	30-01	30-01	99-01	32 00
1	85-03	90-02	10-01	28-01	27-01	66-01	12-01
3	12-02	24-01	25-01	80-01	70-01	12 00	14-01
5	12-02	36-01	37-01	12 00	10 00	15 00	14-01
10	12-02	58-01	55-01	21 00	14 00	18 00	14-01
20	12-02	82-01	74-01	31 00	18 00	19 00	14-01
30	12-02	93-01	81-01	35 00	19 00	19 00	14-01
100	12-02	10 00	86-01	40 00	19 00	19 00	14-01
300	12-02	10 00	86-01	40 00	19 00	19 00	14-01

8	9	10	Сумма
27-05	96-06	44-06	76-05
44-05	15-05	96-06	13-04
54-05	19-05	14-05	17-04
89-05	26-05	24-05	23-04
87-05	38-05	40-05	31-04
10-04	48-05	56-05	37-04
14-04	11-04	14-04	70-04
21-04	24-04	29-04	14-03
21 07	21 02	72 00	23 09
12-04	27-05	43-06	18-04
21-05	81-06	29-06	56-05
35-05	12-05	62-06	10-04
44-05	15-05	88-06	13-04
58-05	20-05	14-05	18-04
75-05	23-05	24-05	24-04
86-05	34-05	33-05	29-04
13-04	68-05	88-05	50-04
18-04	15-04	20-04	94-04

8	9	10	Сумма
77-05	30-05	30-05	26-04
11-04	60-05	72-05	43-04
13-04	86-05	11-04	58-04
17-04	15-04	18-04	87-04
24-04	24-04	28-04	14-03
28-04	32-04	35-04	18-03
51-04	75-04	60-04	35-03
94-04	14-03	82-04	83-03
35 05	16 01	56-01	97 07
14-03	29-04	47-05	22-03
65-05	22-05	18-05	20-04
98-05	40-05	43-05	33-04
12-04	55-05	65-05	42-34
15-04	88-05	11-04	61-04
19-04	14-04	19-04	91-04
22-04	20-04	24-04	12-03
38-04	48-04	48-04	26-03
67-04	10-03	74-04	55-03

8	9	10	Сумма
12-04	78-05	86-06	50-04
20-04	17-04	19-04	98-04
25-04	25-04	27-04	14-03
35-04	41-04	39-04	21-03
51-04	67-04	54-04	34-03
66-04	84-04	63-04	45-03

12-03	16-03	85-04	10-02
20-03	25-03	67-04	22-02
46-04	41-00	15-01	19-07
54-03	10-03	16-04	82-03
11-04	48-05	52-05	35-04
17-04	10-04	12-04	64-04
20-04	15-04	18-04	92-04
27-04	25-04	28-04	14-03
38-04	42-04	42-04	23-03
47-04	56-04	51-04	30-03
89-04	12-03	78-04	68-03
16-03	21-03	87-04	14-02

8	9	10	Сумма
25-04	22-04	22-04	12-03
47-04	48-04	41-04	25-03
61-04	66-04	52-04	35-03
87-04	97-04	67-04	56-03
13-03	14-03	81-04	89-03
16-03	17-03	85-04	12-02
27-03	27-03	87-04	28-02
42-03	33-03	87-04	67-02
50-03	11-00	42-02	33-06
19-02	35-03	55-04	28-02
21-04	12-04	14-04	82-04
34-04	28-04	30-04	16-03
44-04	42-04	40-04	23-03
62-04	69-04	56-04	38-03
96-04	10-03	72-04	60-03
12-03	13-03	80-04	79-03
21-03	23-03	87-04	18-02
33-03	31-03	87-04	40-02

8	9	10	Сумма
58-04	53-04	43-04	30-03
11-03	98-04	67-04	62-03
14-03	13-03	77-04	89-03
20-03	18-03	86-04	14-02
28-03	24-03	87-04	23-02
34-03	27-03	87-04	32-02
59-03	33-03	87-04	84-02
93-03	33-03	87-04	22-01
66-02	35-01	13-02	64-05
57-02	11-02	17-03	87-02
44-04	32-04	32-04	19-03
81-04	70-04	56-04	41-03
10-03	96-04	68-04	58-03
14-03	15-03	81-04	94-03
21-03	20-03	86-04	15-02
25-03	23-03	87-04	20-02
45-03	32-03	87-04	50-02
73-03	33-03	87-04	12-01

8	9	10	Сумма
15-03	11-03	73-04	88-03
28-03	19-03	86-04	19-02
37-03	23-03	87-04	28-02
54-03	26-03	87-04	49-02
76-03	32-03	87-04	86-02
92-03	33-03	87-04	12-01
15-02	33-03	87-04	34-01
23-02	33-03	87-04	87-01
67 01	85-02	32-03	99 04
19-01	36-02	57-03	23-01
11-03	83-04	63-04	56-03
20-03	16-03	83-04	12-02
27-03	20-03	86-04	15-02
40-03	26-03	87-04	30-02
58-03	30-03	87-04	52-02
71-03	32-03	87-04	72-02
12-02	33-03	87-04	20-01
20-02	33-03	87-04	53-01

8	9	10	Сумма
44-03	21-03	87-04	28-02
80-03	28-03	87-04	68-02
10-02	32-03	87-04	10-01
14-02	33-03	87-04	19-01
19-02	33-03	87-04	34-01
22-02	33-03	87-04	49-01
30-02	33-03	87-04	10 00
34-02	33-03	87-04	30 00
74 00	20-02	30-04	18 04
56-01	10-01	16-02	86-01
30-03	19-03	87-04	17-02
60-03	28-03	87-04	41-02
78-03	31-03	87-04	67-02
11-02	33-03	87-04	11-01
15-02	33-03	87-04	20-01
18-02	33-03	87-04	23-01
28-02	33-03	87-04	83-01
34-02	33-03	87-04	21 00

8	9	10	Сумма
13-02	31-03	87-04	13-01
21-02	33-03	87-04	34-01
25-02	33-03	87-04	52-01
30-02	33-03	87-04	92-01
32-02	33-03	87-04	16 00
34-02	33-03	87-04	21 00
35-02	33-03	87-04	47 00
35-02	33-03	87-04	75 00
75-01	34-02	15-04	35 03
17 00	32-01	65-02	27 00
10-02	31-03	87-04	75-02
17-02	33-03	87-04	20-01

21-02	33-03	87-04	30-01
27-02	33-03	87-04	56-01
32-02	33-03	87-04	10 00
34-02	33-03	87-04	14 00
35-02	33-03	87-04	35 00
35-02	33-03	87-04	66 00

8	9	10	Сумма
27-02	33-03	87-04	56-01
32-02	33-03	87-04	14 00
34-02	33-03	87-04	20 00
35-02	33-03	87-04	31 00
35-02	33-03	87-04	47 00
35-02	33-03	87-04	50 00
35-02	33-03	87-04	67 00
35-02	33-03	87-04	95 00
12-01	6^04	31-05	50 02
44 00	82-01	22-01	70 00
23-02	33-03	87-04	34-01
32-02	33-03	87-04	86-01
34-02	33-03	87-04	13 00
35-02	33-03	87-04	22 00
35-02	33-03	87-04	36 00
35-02	33-03	87-04	46 00
35-02	33-03	87-04	81 00
35-02	33-03	87-04	98 00

8	9	10	Сумма
34-02	33-03	87-04	23 00
35-02	33-03	87-04	45 00
35-02	33-03	87-04	58 00
35-02	33-03	87-04	75 00
35-02	33-03	87-04	91 00
35-02	33-03	87-04	97 00
35-02	33-03	87-04	10 01
35-02	33-03	87-04	10 01
20-02	13-04	65-00	82 01
11 01	21 00	87-01	19 01
34-02	33-03	87-04	16 00
35-02	33-03	87-04	34 00
35-02	33-03	87-04	47 00
35-02	33-03	87-04	67 00
35-02	33-03	87-04	85 00
35-02	33-03	87-04	93 00
35-02	33-03	87-04	10 01
35-02	33-03	87-04	10 01

