

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=12000 K

P=0,001 атм

	1	2	3	4	5	6	7	8
1	29-08	20-07	38-07	11-07	12-08	97-09	11-05	30-05
3	68-08	59-07	11-06	32-07	38-08	29-08	31-05	88-05
5	14-07	98-07	19-06	54-07	60-08	48-08	48-05	95-05
10	29-07	20-06	38-06	11-06	12-07	97-08	83-05	14-04
20	38-07	39-06	75-06	22-06	24-07	19-07	13-04	20-04
30	88-07	59-06	11-05	32-06	36-07	29-07	17-04	24-04
100	29-06	20-65	38-05	11-05	12-06	97-07	30-04	43-04
300	88-06	59-05	10-04	32-05	36-06	29-06	41-04	86-04
A	92 02	33 06	96 06	26 08	64 08	30 09	90 08	38 08
B	14-08	98-08	19-07	54-08	60-09	48-09	60-06	20-05
1	14-081	98-08	19-07	54-08	60-09	48-09	60-06	18-05
3	43-08	29-07	56-07	16-07	18-08	14-08	17-05	45-05
5	72-08	49-07	94-07	27-07	30-08	24-08	28-05	65-05
10	14-07	98-07	19-06	54-07	80-08	48-08	52-05	10-04
20	29-07	20-06	38-06	11-06	12-07	97-08	91-05	15-04
30	43-07	29-06	56-06	16-06	18-07	14-07	12-04	18-04
100	14-06	98-06	19-05	54-06	80-07	48-07	24-04	34-04
300	43-06	29-05	56-05	16-05	18-06	14-06	37-04	55-04

P=0,01 атм

	1	2	3	4	5	6	7	8
1	22-06	15-05	26-05	81-06	89-07	77-07	27-04	37-04
3	66-06	45-05	84-05	24-05	27-06	23-06	40-04	80-04
5	11-05	75-05	14-04	41-05	44-06	36-06	45-04	76-04
10	22-05	15-04	26-04	81-05	89-06	77-06	51-04	99-04
20	42-05	30-04	46-04	16-04	18-05	15-05	59-04	13-03
30	63-05	45-04	62-04	24-04	27-05	23-05	65-04	16-03
100	19-04	15-03	16-03	75-04	89-05	77-05	89-04	30-03
300	50-04	44-03	41-03	22-03	27-04	23-04	13-03	58-03
A	12 01	42 04	12 05	34 06	64 06	37 07	83 06	22 06
B	11-06	75-06	14-05	41-06	44-07	38-07	47-04	15-03
1	11-06	75-06	14-05	41-06	44-07	38-07	22-04	30-04
3	33-06	22-05	42-05	12-05	13-08	12-06	35-04	52-04
5	55-06	37-05	70-05	20-05	22-06	19-06	41-04	65-04
10	11-05	75-05	14-04	41-05	44-06	38-06	49-04	87-04
20	22-05	15-04	27-04	81-05	89-06	77-06	57-04	11-03
30	32-05	22-04	39-04	12-04	13-05	12-05	64-04	14-03
100	10-04	75-04	11-03	40-04	44-05	38-05	86-04	23-03
300	29-04	22-03	25-03	12-03	13-04	12-04	12-03	40-03

P=0,03 атм

	1	2	3	4	5	6	7	8
1	14-05	93-05	17-04	52-05	63-06	64-06	51-04	92-04
3	40-05	28-04	45-04	15-04	19-05	19-05	67-04	15-03
5	65-05	46-04	70-04	26-04	31-05	32-05	78-04	19-03
10	12-04	92-04	12-03	52-04	63-05	64-05	98-04	28-03
20	24-04	16-03	21-03	98-04	12-04	13-04	13-03	43-03
30	34-04	28-03	29-03	14-03	19-04	19-04	15-03	56-03

100	91-04	90-03	78-03	45-03	63-04	64-04	26-03	12-02
300	20-03	25-02	20-02	13-02	19-03	19-03	46-03	19-02
A	19 00	67 03	19 04	50 05	12 06	43 06	80 05	18 05
B	68-06	46-05	86-05	26-05	31-06	32-06	30-03	97-03
1	68-06	46-05	86-05	26-05	31-06	32-06	48-04	79-04
3	20-05	14-04	26-04	77-05	94-06	97-06	66-04	13-03
5	34-05	23-04	42-04	13-04	16-05	16-05	76-04	16-03
10	66-05	46-04	76-04	26-04	31-05	32-05	93-04	22-03
20	13-04	93-04	13-03	51-04	63-05	64-05	11-03	31-03
30	19-04	14-03	18-03	76-04	94-05	97-05	13-03	39-03
100	55-04	46-03	47-03	24-03	31-04	32-04	20-03	78-03
300	14-03	14-02	12-02	67-03	94-04	97-04	34-03	15-02

P=0,1 атм

	1	2	3	4	5	6	7	8
1	74-05	83-04	85-04	30-04	43-05	50-05	11-03	26-03
3	21-04	16-03	20-03	92-04	13-04	15-04	17-03	50-03
5	32-04	26-03	31-03	15-03	22-04	25-04	22-03	70-03
10	59-04	32-03	54-03	28-03	43-04	50-04	30-03	11-02
20	10-03	10-02	95-03	54-03	88-04	10-03	43-03	15-02
30	14-03	15-02	13-02	79-03	13-03	15-03	53-03	18-02
100	29-03	45-02	36-02	25-02	43-03	50-03	10-02	33-02
300	46-03	11-01	82-02	72-02	13-02	15-02	19-02	49-02
A	34-01	11 03	31 03	80 04	17 05	56 05	89 04	18 04
B	39-05	27-04	49-04	15-04	22-05	25-05	17-02	56-02
1	39-05	27-04	48-04	15-04	22-05	25-05	98-04	20-03
3	11-04	80-04	13-03	48-04	64-05	75-05	14-03	36-03
5	18-04	13-03	19-03	78-04	11-04	12-04	17-03	48-03
10	34-04	27-03	33-03	15-03	22-04	25-04	23-03	71-03
20	63-04	53-03	57-03	29-03	43-04	50-04	32-03	11-02
30	88-04	79-03	79-03	42-03	64-04	75-04	39-03	13-02
100	22-03	25-02	21-02	13-02	22-03	25-03	73-03	26-02
300	40-03	70-02	54-02	38-02	64-03	75-03	15-02	40-02

P=0,3 атм

	1	2	3	4	5	6	7	8
1	27-04	22-03	30-03	13-03	22-04	29-04	28-03	77-03
3	70-04	64-03	68-03	37-03	66-04	87-04	48-03	14-02
5	10-03	10-02	10-02	60-03	11-03	14-03	62-03	19-02
10	17-03	20-02	18-02	12-02	22-03	29-03	90-03	27-02
20	24-03	38-02	32-02	22-02	44-03	58-03	15-02	37-02
30	32-03	64-02	44-02	33-02	66-03	86-03	17-02	44-02
100	49-03	14-01	11-01	10-01	22-02	29-02	31-02	66-02
300	53-03	27-01	20-01	28-01	64-02	84-02	54-02	86-02
A	82-02	27 02	70 02	17 04	32 04	96 04	14 04	25 03
B	16-04	11-03	20-03	65-04	11-04	14-04	72-02	23-01
1	15-04	11-03	17-03	65-04	11-04	14-04	21-03	53-03
3	41-04	33-03	42-03	19-03	33-04	43-04	35-03	10-02
5	64-04	54-03	62-03	31-03	55-04	72-04	48-03	13-02
10	11-03	11-02	11-02	60-03	11-03	14-03	66-03	19-02
20	19-03	21-02	19-02	12-02	22-03	29-03	13-02	28-02
30	25-03	31-02	27-02	17-02	33-03	43-03	14-02	35-02
100	44-03	91-02	72-02	56-02	11-02	14-02	21-02	56-02
300	53-03	20-01	15-01	16-01	33-02	43-02	40-02	75-02

P=1 атм

	1	2	3	4	5	6	7	8
1	90-04	87-03	10-02	58-03	13-03	18-03	81-03	21-02
3	20-03	25-02	24-02	16-02	39-03	55-03	16-02	37-02
5	24-03	39-02	36-02	26-02	65-03	91-03	19-02	46-02
10	38-03	70-02	61-02	50-02	13-02	18-02	27-02	60-02
20	47-03	12-01	10-01	97-02	26-02	36-02	39-02	73-02
30	51-03	16-01	13-01	14-01	38-02	54-02	46-02	80-02
100	53-03	32-01	25-01	40-01	12-01	17-01	87-02	11-01
300	53-03	45-01	38-01	94-01	33-01	47-01	16-01	45-01
A	20-02	62 01	15 02	34 03	54 03	15 04	21 03	37 02
B	67-04	45-03	81-03	29-03	68-04	92-04	29-01	94-01
1	55-04	45-03	59-03	29-03	68-04	92-04	60-03	15-02
3	13-03	13-02	14-02	83-03	20-03	27-03	13-02	28-02
5	20-03	22-02	22-02	14-02	34-03	46-03	15-02	36-02
10	30-03	22-02	38-02	26-02	68-03	92-03	19-02	49-02
20	42-03	77-02	66-02	51-02	14-02	18-02	32-02	64-02
30	47-03	11-01	90-02	76-02	20-02	27-02	36-02	70-02
100	53-03	25-01	19-01	24-01	67-02	90-02	62-02	95-02
300	53-03	40-01	31-01	62-01	19-01	26-01	12-01	13-01

P=3 атм

	1	2	3	4	5	6	7	8
1	11-03	28-02	30-02	21-02	65-03	96-03	20-02	47-02
3	38-03	72-02	88-02	80-02	20-02	29-02	38-02	71-02
5	48-03	11-01	97-02	97-02	32-02	48-02	46-02	81-02
10	52-03	18-01	15-01	18-01	64-02	94-02	85-02	97-02
20	54-03	28-01	23-01	34-01	12-01	18-01	95-02	12-01
30	53-03	32-01	28-01	47-01	18-01	27-01	12-01	13-01
100	53-03	47-01	42-01	12 00	50-01	76-01	24-01	18-01
300	53-03	52-01	48-01	21 00	11 00	17 00	39-01	22-01
A	57-03	17 01	37 01	76 02	10 03	29 03	38 02	64 01
B	23-03	15-02	27-02	11-02	35-03	49-03	97-01	31 00
1	15-03	18-02	18-02	11-02	35-03	48-03	18-02	38-02
3	31-05	42-02	43-02	32-02	10-02	15-02	31-02	60-02
5	38-03	87-02	84-02	81-02	17-02	24-02	38-02	70-02
10	48-03	12-01	11-01	10-01	34-02	48-02	48-02	84-02
20	53-03	20-01	17-01	19-01	68-02	95-02	68-02	10-01
30	53-03	25-01	21-01	26-01	10-01	14-01	88-02	11-01
100	53-03	42-01	35-01	79-01	32-01	45-01	18-01	16-01
300	53-03	51-01	45-01	17 00	80-01	12 00	32-01	21-01

P=10 атм

	1	2	3	4	5	6	7	8
1	42-03	85-02	90-02	92-02	38-02	57-02	53-02	88-02
3	52-03	19-01	19-01	26-01	11-01	16-01	96-02	12-01
5	53-03	26-01	24-01	39-01	18-01	26-01	13-01	14-01
10	53-03	36-01	33-01	89-01	33-01	49-01	19-01	18-01
20	53-03	44-01	41-01	11 00	58-01	87-01	27-01	19-01
30	53-03	48-01	45-01	15 00	78-01	12 00	33-01	21-01
100	53-03	53-01	48-01	25 00	15 00	24 00	49-01	24-01
300	53-03	53-01	48-01	29 00	20 00	32 00	64-01	24-01
A	15-03	42 00	79 00	14 02	17 02	48 02	53 01	90 00
B	88-03	56-02	98-02	51-02	21-02	30-02	35 00	11 01
1	35-03	51-02	58-02	48-02	21-02	30-02	41-02	76-02
3	50-03	13-01	13-01	14-01	62-02	88-02	70-02	10-01

5	52-03	19-01	18-01	22-01	10-01	14-01	94-02	12-01
10	53-03	29-01	26-01	42-01	20-01	28-01	14-01	14-01
20	53-03	39-01	34-01	77-01	38-01	54-01	21-01	17-01
30	53-03	44-01	39-01	10 00	54-01	78-01	26-01	19-01
100	53-03	52-01	46-01	22 00	13 00	19 00	45-01	23-01
300	53-03	53-01	48-01	28 00	19 00	30 00	54-01	24-01

P=30 атм

	1	2	3	4	5	6	7	8
1	53-03	20-01	22-01	36-01	18-01	28-01	14-01	14-01
3	53-03	36-01	37-01	88-01	48-01	73-01	23-01	18-01
5	53-03	43-01	42-01	12 00	70-01	11 00	32-01	21-01
10	53-03	50-01	47-01	18 00	11 00	17 00	43-01	23-01
20	53-03	52-01	48-01	24 00	18 00	25 00	51-01	24-01
30	53-03	53-01	48-01	17 00	18 00	29 00	53-01	24-01
100	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
300	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
A	44-04	11 00	18 00	31 01	32 01	89 01	91 00	14 00
B	30-02	18-01	31-01	21-01	11-01	16-01	11 01	34 01
1	51-03	14-01	13-01	20-01	11-01	16-01	10-01	13-01
3	53-03	29-01	28-01	84-01	30-01	45-01	20-01	17-01
5	53-03	37-01	33-01	84-01	48-01	71-01	28-01	19-01
10	53-03	46-01	42-01	14 00	84-01	13 00	37-01	22-01
20	53-03	51-01	43-01	21 00	13 00	20 00	47-01	23-01
30	53-03	52-01	47-01	24 00	16 00	25 00	61-01	24-01
100	53-03	53-01	48-01	29 00	20 00	32 00	54-01	24-01
300	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01

P=100 атм

	1	2	3	4	5	6	7	8
1	53-03	41-01	42-01	12 00	81-01	13 00	38-01	22-01
3	53-03	51-01	47-01	23 00	15 00	24 00	51-01	24-01
5	53-03	53-01	48-01	27 00	18 00	29 00	54-01	24-01
10	33-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
20	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
30	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
100	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
300	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
A	11-04	26-01	33-01	58 00	51 00	13 01	12 00	19-01
B	12-01	70-01	11 00	11 00	69-01	11 00	36 01	12 02
1	53-03	34-01	35-01	86-01	58-01	91-01	33-01	21-01
3	53-03	48-01	44-01	19 00	13 00	20 00	49-01	23-01
5	53-03	52-01	47-01	24 00	16 00	26 00	53-01	24-01
10	53-03	53-01	48-01	28 00	19 00	31 00	54-01	24-01
20	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
30	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
100	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01
300	53-03	53-01	48-01	29 00	20 00	33 00	54-01	24-01

9	10	Сумма
56-05	19-05	12-04
80-05	31-05	21-04
96-05	40-05	28-04
12-04	60-05	41-04
15-04	94-05	59-04
16-04	12-04	73-04
26-04	30-04	14-03
44-04	89-04	24-03
32 04	27 03	52 09
13-04	46-05	20-04
46-05	15-05	86-05
70-05	24-05	16-04
82-05	30-05	21-04
10-04	42-05	30-04
13-04	63-05	44-04
14-04	82-05	54-04
21-04	19-04	10-03
33-04	42-04	18-03

9	10	Сумма
22-04	24-04	12-03
39-04	58-04	21-03
54-04	88-04	29-03
87-04	16-03	45-03
15-03	28-03	72-03
20-03	38-03	96-03
52-03	86-03	22-02
11-02	14-02	44-02
37 02	34 01	59 07
15-03	55-04	41-03
18-04	15-04	87-04
28-04	35-04	18-03
38-04	52-04	21-03
57-04	92-04	31-03
90-04	16-03	48-03
12-03	23-03	63-03
31-03	59-03	14-32
72-03	12-02	30-02

9	10	Сумма
62-04	10-03	34-03
14-03	26-03	70-03
20-03	36-03	10-02
37-03	51-03	16-02
60-03	94-03	26-02
80-03	12-02	35-02

17-02	18-02	72-02
25-02	21-02	14-01
64 01	57 00	70 08
51-03	19-03	20-02
43-04	61-04	25-03
87-04	15-03	45-03
13-03	23-03	68-03
21-03	40-03	11-02
37-03	67-03	18-02
51-03	87-03	23-02
12-02	16-02	50-02
22-02	20-02	95-02

9	10	Сумма
26-03	43-03	12-02
60-03	90-03	27-02
83-03	12-02	37-02
13-02	16-02	57-02
19-02	19-02	85-02
23-02	20-02	11-01
35-02	21-02	22-01
42-02	21-02	43-01
10 01	96-01	91 05
20-02	77-03	10-01
15-03	27-03	82-03
38-03	63-03	18-02
53-03	88-03	25-02
69-03	13-02	39-02
14-02	17-02	60-02
18-02	18-02	76-02
31-02	21-02	15-01
40-02	21-02	30-01

9	10	Сумма
78-03	11-02	36-02
16-02	17-02	71-02
20-02	19-02	95-02
28-02	21-02	14-01
34-02	21-02	21-01
38-02	21-02	27-01
42-02	21-02	56-01
42-02	21-02	11 00
22 00	22-01	16 05
67-02	26-02	40-01
49-03	80-03	24-02
11-02	14-02	50-02
15-02	17-02	67-02
23-02	20-02	10-01
30-02	21-02	15-01
34-02	21-02	19-01
42-02	21-02	39-01
42-02	21-02	77-01

9	10	Сумма
20-02	18-02	96-02
31-02	21-02	18-01
36-02	21-02	24-01
40-02	21-02	36-01
42-02	21-02	56-01
42-02	21-02	72-01
42-02	21-02	15 00
42-02	21-02	30 00
49-01	52-02	26 34
24-01	98-02	16 00
15-02	16-02	67-02
26-02	20-02	13-01
31-02	21-02	17-01
37-02	21-02	25-01
41-02	21-02	39-01
42-02	21-02	50-01
42-02	21-02	10 00
42-02	21-02	21 00

9	10	Сумма
33-02	21-02	22-01
41-02	21-02	42-01
42-02	21-02	58-01
42-02	21-02	90-01
42-02	21-02	14 00
42-02	21-02	18 00
42-02	21-02	38 00
42-02	21-02	65 00
13-01	15-02	52 03
77-01	31-01	50 00
29-02	21-02	18-01
36-02	21-02	30-01
41-02	21-02	40-01
42-02	21-02	61-01
42-02	21-02	96-01
42-02	21-02	12 00
42-02	21-02	27 00
42-02	21-02	52 00

9	10	Сумма
42-02	21-02	57-01
42-02	21-02	12 00
42-02	21-02	17 00
42-02	21-02	26 00
42-02	21-02	40 00
42-02	21-02	50 00
42-02	21-02	83 00
42-02	21-02	10 01
32-02	38-03	88 02
26 00	10 00	16 01
40-02	21-02	39-01
42-02	21-02	79-01

42-02	21-02	11 00
42-02	21-02	18 00
42-02	21-02	29 00
42-02	21-02	37 00
42-02	21-02	71 00
42-02	21-02	96 00

9	10	Сумма
42-02	21-02	16 00
42-02	21-02	33 00
42-02	21-02	46 00
42-02	21-02	64 00
42-02	21-02	83 00
42-02	21-02	92 00
42-02	21-02	10 01
42-02	21-02	10 01
88-03	11-03	16 02
80 00	33 00	57 01
42-02	21-02	11 00
42-02	21-02	23 00
42-02	21-02	33 00
42-02	21-02	51 00
42-02	21-02	72 00
42-02	21-02	84 00
42-02	21-02	99 00
42-02	21-02	10 01

9	10	Сумма
42-02	21-02	49 00
42-02	21-02	80 00
42-02	21-02	92 00
42-02	21-02	10 01
42-02	21-02	10 01
42-02	21-02	10 01
42-02	21-02	10 01
42-02	21-02	10 01
42-02	21-02	10 01
19-03	27-04	28 01
27 01	12 01	20 02
42-02	21-02	36 00
42-02	21-02	69 00
42-02	21-02	84 00
42-02	21-02	97 00
42-02	21-02	10 01
42-02	21-02	10 01
42-02	21-02	10 01
42-02	21-02	10 01













