

Full list of ingredients added to the tobacco in Philip Morris International cigarettes manufactured for sale in Kazakhstan

CAS ¹	FEMA ²	CoE ³	Ingredients ⁴	MUL ⁵	Function ⁶
470-82-6	2465	182	1,8-cineole	0.0005	flavouring
1124-11-4	3237	734	2,3,5,6-tetramethylpyrazine	0.005	flavouring
14667-55-1	3244	735	2,3,5-trimethylpyrazine	0.0001	flavouring
15707-24-1	3136	534	2,3-diethylpyrazine	0.0001	flavouring
123-32-0	3272	2210	2,5-dimethylpyrazine	0.0001	flavouring
110-43-0	2544	136	2-heptanone	0.0005	flavouring
93-51-6	2671	175	2-methoxy-4-methylphenol	0.0001	flavouring
116-53-0	2695	2002	2-methylbutyric acid	0.0001	flavouring
928-96-1	2563	750	3-hexen-1-ol	0.05	flavouring
590-86-3	2692	94	3-methylbutyraldehyde	0.0005	flavouring
5471-51-2	2588	755	4-(para-hydroxyphenyl)-2-butanone	0.1	flavouring
100-06-1	2005	570	acetanisole	0.005	flavouring
64-19-7	2006	2	acetic acid	0.01	flavouring
513-86-0	2008	749	acetoin	0.005	flavouring
98-86-2	2009	138	acetophenone	0.0005	flavouring
22047-25-2	3126	2286	acetylpyrazine	0.0001	flavouring
123-68-2	2032	2181	allyl hexanoate	0.05	flavouring
127-41-3	2594	141	alpha-ionone	0.0001	flavouring
79-69-6	2597	145	alpha-irone	0.005	flavouring
99-83-2	2856	2117	alpha-phellandrene	0.01	flavouring
80-56-8	2902	2113	alpha-pinene	0.01	flavouring
98-55-5	3045	62	alpha-terpineol	0.01	flavouring
540-18-1	2059	270	amyl butyrate	0.0001	flavouring
111-27-3	2567	53	amylcarbinol	0.05	flavouring
105-13-5	2099	66	anisylol	0.0005	flavouring
100-52-7	2127	101	benzaldehyde	0.05	flavouring

9000-72-0	2133	-	benzoin extract	0.0001	flavouring
9000-05-9	2133	439	benzoin, resinoid	0.0005	flavouring
120-51-4	2138	262	benzyl benzoate	0.001	flavouring
60-12-8	2858	68	benzyl carbinol	0.005	flavouring
87-44-5	2252	2118	beta-caryophyllene	0.05	flavouring
23726-91-2	3243	none	beta-damascone	0.005	flavouring
14901-07-6	2595	142	beta-ionone	0.05	flavouring
76-49-3	2159	207	bornyl acetate	0.0001	flavouring
109-19-3	2218	444	butyl isovalerate	0.05	flavouring
107-92-6	2221	5	butyric acid	0.05	flavouring
8000-66-6	2241	180	cardamom seed oil	0.0001	flavouring
84961-45-5	2243	none	carob bean and/or extract	0.05	flavouring
8015-90-5	2271	52	celery seed oil	0.0001	flavouring
104-55-2	2286	102	cinnamaldehyde	0.1	flavouring
8015-91-6	2291	133	cinnamon bark oil	0.0001	flavouring
122-69-0	2298	332	cinnamyl cinnamate	0.0001	flavouring
3681-71-8	3171	644	cis-3-hexen-1-yl acetate	0.01	flavouring
13877-91-3	3539	11015	cis-ocimene	0.05	flavouring
97-89-2	2313	296	citronellyl isobutyrate	0.05	flavouring
8016-63-5	2321	415	clary oil	0.0001	flavouring
various	-	-	cocoa and cocoa products	0.1	flavouring
8008-52-4	2334	154	coriander oil	0.0005	flavouring
106-22-9	2309	59	d,l-citronellol	0.01	flavouring
8016-03-3	2359	69	davana oil	0.05	flavouring
112-31-2	2362	98	decanal	0.001	flavouring
705-86-2	2361	621	delta-decalactone	0.005	flavouring
8006-75-5	2383	42	dill oil	0.0001	flavouring
5989-27-5	2633	491	d-limonene	0.1	flavouring
7452-79-1	2443	265	ethyl 2-methylbutyrate	0.1	flavouring
141-78-6	2414	191	ethyl acetate	0.2	flavouring
105-54-4	2427	264	ethyl butyrate	0.4	flavouring
103-36-6	2430	323	ethyl cinnamate	0.01	flavouring
106-30-9	2437	365	ethyl heptanoate	0.0005	flavouring

123-66-0	2439	310	ethyl hexanoate	0.05	flavouring
108-64-5	2463	442	ethyl isovalerate	0.005	flavouring
97-64-3	2440	371	ethyl lactate	0.0005	flavouring
106-33-2	2441	375	ethyl laurate	0.005	flavouring
4940-11-8	3487	692	ethyl maltol	0.1	flavouring
106-32-1	2449	392	ethyl octanoate	0.05	flavouring
8016-21-5	2331	485	ethyl oenanthate	0.005	flavouring
101-97-3	2452	2156	ethyl phenylacetate	0.0001	flavouring
105-37-3	2456	402	ethyl propionate	0.05	flavouring
121-32-4	2464	108	ethyl vanillin	0.005	flavouring
68990-15-8	2484	none	fenugreek extract	0.0001	flavouring
3658-77-3	3174	536	furaneol	0.05	flavouring
8023-91-4	2501	197	galbanum oil	0.0001	flavouring
706-14-9	2360	2230	gamma-decalactone	0.01	flavouring
105-21-5	2539	2253	gamma-heptalactone	0.05	flavouring
104-61-0	2781	178	gamma-nonolactone	0.0001	flavouring
104-67-6	3091	179	gamma-undecalactone	0.05	flavouring
106-24-1	2507	60	geraniol	0.05	flavouring
8007-08-7	2522	489	ginger oil	0.0001	flavouring
56-81-5	2525	4117	glycerol	4.6	humectant
9000-30-0	2537	166	guar gum	1	binder
66-25-1	2557	96	hexanal	0.005	flavouring
142-62-1	2559	9	hexanoic acid	0.0001	flavouring
6728-26-3	2560	748	hexen-2-al	0.001	flavouring
142-92-7	2565	196	hexyl acetate	0.05	flavouring
8023-95-8	2592	255	immortelle extract	0.0001	flavouring
123-92-2	2055	214	isoamyl acetate	0.2	flavouring
106-27-4	2060	282	isoamyl butyrate	0.1	flavouring
110-45-2	2069	500	isoamyl formate	0.001	flavouring
2198-61-0	2075	320	isoamyl hexanoate	0.05	flavouring
659-70-1	2085	458	isoamyl isovalerate	0.0001	flavouring
79-31-2	2222	6	isobutyric acid	0.05	flavouring

78-83-1	2179	49	isopropylcarbinol	0.0001	flavouring
503-74-2	3102	8	isovaleric acid	0.1	flavouring
8022-96-6	2598	245	jasmine absolute	0.005	flavouring
8000-28-0	2622	none	lavender oil	0.01	flavouring
6485-40-1	2249	none	l-carvone	0.6	flavouring
8008-56-8	2625	139	lemon oil	0.001	flavouring
78-70-6	2635	61	linalool	0.05	flavouring
8016-31-7	2650	261	lovage extract or oil	0.0005	flavouring
118-71-8	2656	148	maltol	0.05	flavouring
106-72-9	2389	2006	melonal	0.05	flavouring
2216-51-5	2665	63	menthol	2.8	flavouring
89-80-5	2667	2035	menthone	0.1	flavouring
623-42-7	2693	263	METHYL BUTYRATE	0.05	flavouring
80-71-7	2700	758	methyl cyclopentenolone	0.005	flavouring
24851-98-7	3408	10785	methyl dihydrojasmonate	0.1	flavouring
556-24-1	2753	457	methyl isovalerate	0.0001	flavouring
93685-96-2	2755	none	mimosa extract	0.0001	flavouring
106-25-2	2770	2018	nerol	0.01	flavouring
124-19-6	2782	114	nonanal	0.005	flavouring
9000-50-4	2795	194	oakmoss absolute	0.0001	flavouring
106-02-5	2840	181	omega-pentadecalactone	0.005	flavouring
8021-36-1	none	313	opoponax oil	0.0001	flavouring
8028-48-6	2825	143	orange peel sweet oil terpeneless	0.005	flavouring
8002-73-1	2830	241	orris root extract	0.0005	flavouring
68917-05-5	3750	-	osmanthus absolute	0.005	flavouring
123-11-5	2670	103	para-methoxybenzaldehyde	0.1	flavouring
8000-68-8	2836	326	parsley oil	0.0001	flavouring
8006-82-4	2845	347	pepper oil, black	0.0001	flavouring
8006-90-4	2848	282	peppermint oil	0.3	flavouring
103-45-7	2857	221	phenethyl acetate	0.1	flavouring
122-78-1	2874	116	phenylacetaldehyde	0.1	flavouring

103-82-2	2878	672	phenylacetic acid	0.0005	flavouring
100-51-6	2137	58	phenylcarbinol	0.3	flavouring
120-57-0	2911	104	piperonal	0.1	flavouring
90082-87-4	21CFR150	58	plum juice concentrate	0.005	flavouring
94-86-0	2922	170	propenylguaethol	0.0005	flavouring
57-55-6	2940	4212	propylene glycol	2.1	humectant
6812-78-8	2980	76	rhodinol	0.0001	flavouring
8007-01-0	2989	405	rose oil, bulgarian, true otto	0.01	flavouring
8006-87-9	3005	420	sandalwood oil, yellow	0.0001	flavouring
128-44-9	2997		sodium saccharin	0.05	flavouring
8046-19-3	3036	265	storax	0.0001	flavouring
104-54-1	2294	65	styrlycarbinol	0.2	flavouring
8013-17-0	-	S1	sugar: invert sugar	2.4	casing
57-50-1	-	S1	sugar: sucrose	4.3	casing
68607-01-2	3041	-	tangerine oil terpeneless	0.0005	flavouring
586-62-9	3046	2115	terpinolene	0.01	flavouring
53850-34-3	3732	-	thaumatin	0.005	flavouring
104-87-0	3068	none	tolualdehydes (mixed o,m,p)	0.005	flavouring
4180-23-8	2086	183	trans-anethole	0.05	flavouring
110-62-3	3098	93	valeraldehyde	0.0001	flavouring
8057-49-6	none	473	valerian root extract	0.001	flavouring
8024-06-4	3104	474	vanilla extract	0.005	flavouring
121-33-5	3107	107	vanillin	0.1	flavouring
120-14-9	3109	106	veratraldehyde	0.0001	flavouring
8016-96-4	none	479	vetiver oil	0.0001	flavouring
7732-18-5	-	-	water	12.1	moisturizer, processing aid
			Processing aids		

Footnotes

- 1 CAS Chemical Abstract Service Registry Number. This number is provided where available to identify the ingredient.
- 2 FEMA Flavor and Extract Manufacturers Association reference number. This number is provided where available to identify the ingredient.
- 3 CoE The Council of Europe Reference Number. This number is provided where available to identify the ingredient.
- 4 Ingredient International Union for Pure and Applied Chemistry (IUPAC) name or common chemical name of the ingredient, listed in alphabetical order.
- 5 MUL Maximum Use Level. The maximum quantity at which the ingredient is used in any Philip Morris International brand in this country, expressed as a percentage of the tobacco blend weight (including moisture).
- 6 Function The function of the ingredient in the cigarette. These functions are explained in more detail below:

Function	Description
Binder	Maintains the physical state and texture of the product.
Combustion Modifier	Influences how the product burns.
Filler	Contributes to the bulk of the product without contributing significantly to its odour, taste, flavour or aroma.
Casing	Flavour ingredients and humectants which are added in quantities above 0.1% of the weight of the tobacco blend and are used to replace moisture lost during the curing process and as a carrier for flavourings.
Flavouring	Imparts a specific taste, flavour or aroma to a tobacco product. Individual flavouring ingredients, which can be natural, nature identical or artificial flavourings and flavouring compounds are used at less than 0.1% of the weight of the tobacco blend.
Humectant	Prevents the product from drying out.
Moisturizer	Used to adjust the water content (moisture) of the product.
Preservative	Protects the product from deterioration caused by micro-organisms.
Processing Aid	Facilitates the manufacturing process and are either not present in the end product or occur in residual amount and have no function in the final product.
Solvent	Dissolves or dilutes an ingredient without altering its function in order to facilitate handling and application.

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