

GRAU AROMATICS GmbH & Co. KG

Bismarckstr. 4 • D-73525 Schwäbisch Gmünd

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GRAU
AROMATICS



PERFUMERY AND FLAVOUR CHEMICALS

PRODUCT LIST

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In explanation of our abbreviations:

SC	Conditions of sale: NP = Standard Product (as a rule available ex stock in quantities of 1 kg, 5 kg, ...) NP2 = Standard Product (as a rule available ex stock in quantities of 5 kg, 10 kg, ...) SP1 = Special Product (production only against firm order in quantities of 1 kg, 5 kg, ...) SP2 = Special Product (production only against firm order in quantities of 5 kg, 10 kg, ...) SP3 = Special Product (production only against firm order in quantities of 10 kg, 25 kg, ...) SP4 = Special Product (production only against firm order in quantities of 25 kg, 50 kg, ...) SP5 = Special Product (production only against firm order in quantities of 50 kg, 100 kg, ...) as long as we have a remaining stock of the above special products, we will sell them in any of our standard quantities of 1 kg, 5 kg, 10 kg, 25 kg, 50 kg, 100 kg, 170 kg.
* (as mark after product name)	After sale only available as custom synthesis, if raw material available
FP	Flash point (Degrees Centigrade - Closed cup method)
Status	F = Flavour material P = Fragrance material 1 = Natural flavours and natural flavouring substances 2 = Nature identical flavouring substances 3 = Artificial flavouring substances
FEMA	FEMA-GRAS list number
FLAVIS	FLAVIS number
COE	Council of Europe list number
CAS	Chemical Abstracts number

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TOSCA	Toxic Substances Control Act
EINECS	European Inventory of Existing Commercial Chemical Substances
K	Kosher certificate available (Rabbinically attested)
IFRA	Recommendations of the International Fragrance Association for the safe use of restricted fragrance materials
RIFM	Research Institute for Fragrance Materials
M	Monograph available by RIFM
C	The product is not restricted by IFRA
Customs No.	International customs identification number for import / export

Conditions of sale:

Prices	Generally our prices are quoted in €/kg ex works, customs unpaid. The prices are effective for the current year. However we reserve the right to increase any individual price, if production costs increase.
Small quantities	Orders of less than one kilo will be accepted but will involve an additional charge of € 25,-- per item
Large quantities	Please inquire bulk prices for quantities of more than 2 drums (> 340 kg) within one order
Kosher certificate	For aroma chemicals with an official rabbinical certificate we have to invoice an extra charge of 3%

Odor description for our fragrance materials:

More information is available with our data sheets for each product

Art.-No.	Product name	K	SC	FP	TOSCA	EINECS	Status	FEMA	FLAVIS	COE	CAS	IFRA/ RIFM	Customs no.
500756	Acetaldehyde dihexyl acetal	✓	SP1	109	✓	✓	F P 2		06.071	10022	5405-58-3	C/--	2911 0000
503386	<i>N</i> -Acetyl methylantranilate	✓	NP	155	✓	✓	F P 2	4170	09.649		2719-08-6	C/--	2922 4985
150232	Allyl caproate (allyl hexanoate)	✓	NP	73	✓	✓	F P 2	2032	09.244	2181	123-68-2	C/M	2915 9070
503766	Amyl 2-methylbutyrate (n-amyl 2-methylbutyrate)	✓	SP2	69	✓	✓	F P 2		09.679	10875	68039-26-9	C/--	2915 6090
157822	Amyl acetate (n-amyl acetate)	✓	NP	43	✓	✓	F P 2		09.021	211	628-63-7	C/--	2915 3900
500066	Amyl benzoate (n-amyl benzoate)	✓	NP	120	✓	✓	F P 2		09.825	2307	2049-96-9	C/M	2916 3100
154552	Amyl butyrate (n-amyl butyrate) FCC	✓	NP2	65	✓	✓	F P 2	2059	09.044	270	540-18-1	C/--	2915 6019
500086	Amyl caproate (n-amyl hexanoate)	✓	NP	89	✓	✓	F P 2	2074	09.065	315	540-07-8	C/M	2915 9070
500096	Amyl caprylate (n-amyl octanoate) FCC	✓	SP2	121	✓	✓	F P 2	2079	09.112	393	638-25-5	C/--	2915 9070
500111	Amyl formate (n-amyl formate) FCC	✓	NP	30	✓	✓	F P 2	2068	09.159	497	638-49-3	C/M	2915 1300
500101	Amyl heptanoate (n-amyl heptanoate) FCC	✓	SP2	> 100	✓	✓	F P 2	2073	09.098	370	7493-82-5	C/--	2915 9070
500266	Amyl isobutyrate (n-amyl isobutyrate)	✓	SP2	56	✓	✓	F P 2		09.418	293	2445-72-9	C/--	2915 6019
500276	Amyl isovalerate (n-amyl isovalerate)	✓	SP2	72	✓	✓	F P 2		09.499	2224	25415-62-7	C/--	2915 6090
503546	Amyl lactate (n-amyl lactate)	✓	SP1	88	✓	✓	F P 2		09.683		6382-06-5	C/--	2918 1100
500126	Amyl phenylacetate (n-amyl phenylacetate)	✓	NP	110	✓	✓	F P 2		09.761	612	5137-52-0	C/--	2916 3910
500131	Amyl propionate (n-amyl propionate)	✓	SP2	54	✓	✓	F P 2		09.135	416	624-54-4	C/--	2915 5000
500146	Amyl valerate (n-amyl valerate)	✓	NP	77	✓	✓	F P 2		09.149	467	2173-56-0	C/--	2915 6090
502556	Benzaldehyde propyleneglycol acetal	✓	SP4	98	✓	✓	F P 3	2130	06.032	2226	2568-25-4	C/M	2911 0000
500145	Benzyl 2-methylbutyrate	✓	SP1	>130	✓	✓	F P 2		09.313	10523	56423-40-6	C/--	2915 6090
500045	Benzyl caprylate (benzyl octanoate)	✓	SP3	>100		✓	F P 2		09.318		10276-85-4	C/--	2915 9070
500316	Benzyl isovalerate FCC	✓	SP1	112	✓	✓	F P 2	2152	09.458	453	103-38-8	C/M	2915 6090
502236	Benzyl valerate	✓	SP1	116	✓	✓	F P 2		09.152	470	10361-39-4	C/--	2915 6090
502126	Butyl 2-methylbutyrate	✓	SP1	57	✓	✓	F P 2	3393	09.519	10534	15706-73-7	C/--	2915 6090
500044	Butyl 2-methylvalerate		SP1	70	✓	✓	- P 3				6297-41-2	C/--	2915 9070

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500366	Butyl caproate (butyl hexanoate)	✓	SP1	76	✓	✓	F P 2	2201	09.063	313	626-82-4	C/M	2915 9070
500341	Butyl caprylate (butyl octanoate)	✓	SP2	103	✓	✓	F P 2		09.209	742	589-75-3	C/M	2915 9070
503676	Butyl crotonate	✓	SP1	61		✓	F P 2		09.324		7299-91-4	C/--	2916 1995
502241	Butyl formate	✓	NP	13	✓	✓	F P 2	2196	09.163	501	592-84-7	C/--	2915 1300
500421	Butyl isobutyrate FCC	✓	SP1	46		✓	F P 2	2188	09.416	291	97-87-0	C/M	2915 6019
500431	Butyl isovalerate FCC	✓	NP2	58	✓	✓	F P 2	2218	09.449	444	109-19-3	C/M	2915 6090
155032	Butyl lactate	✓	NP2	79	✓	✓	F P 2	2205	09.434	372	138-22-7	C/M	2918 1100
500396	Butyl phenylacetate FCC	✓	SP2	>100	✓	✓	F P 2	2209	09.787	2159	122-43-0	C/M	2916 3910
500411	Butyl propionate	✓	NP	38	✓	✓	F P 2	2211	09.124	405	590-01-2	C/M	2915 5000
502986	Butyl valerate	✓	SP3	65	✓	✓	F P 2	2217	09.148	466	591-68-4	C/--	2915 6090
503996	Butyraldehyde diethylacetal	✓	SP2	30	✓	✓	F P 2		06.061	10009	3658-95-5	C/--	2911 0000
502716	Cinnamyl butyrate FCC	✓	SP1	>100	✓	✓	F P 2	2296	09.053	279	103-61-7	C/M	2915 6019
502886	Cinnamyl isobutyrate FCC	✓	SP3	>100	✓	✓	F P 2	2297	09.470	496	103-59-3	C/M	2915 6019
503076	Cinnamyl propionate FCC	✓	SP3	>130	✓	✓	F P 2	2301	09.133	414	103-56-0	C/M	2915 5000
503156	Citronellyl butyrate	✓	SP1	120	✓	✓	F P 2	2312	09.049	275	141-16-2	C/M	2915 6019
500616	Citronellyl isovalerate	✓	SP2	>100	✓	✓	F P 2		09.460	455	68922-10-1	C/M	2915 6090
500010	Citronellyl propionate FCC	✓	SP3	112	✓	✓	F P 2	2316	09.129	410	141-14-0	C/M	2915 5000
500159	Citronellyl senecioate		SP4	>130	✓	✓	- P 3				20770-40-5	C/--	2916 1995
504276	Citronellyl valerate	✓	SP1	129	✓	✓	F P 2	2317	09.151	469	7540-53-6	C/--	2915 6090
500671	Cyclohexyl acetate	✓	NP2	58	✓	✓	F P 2	2349	09.027	217	622-45-7	C/M	2915 3900
502586	Cyclohexyl butyrate	✓	NP	78	✓	✓	F P 2	2351	09.230	2082	1551-44-6	C/M	2915 6019
503086	Cyclohexyl isobutyrate		SP5	81	✓	✓	- P 3			10548	1129-47-1	C/--	2915 6019
500686	Cyclohexyl isovalerate	✓	SP2	89	✓	✓	F P 3	2355	09.464	459	7774-44-9	C/--	2915 6090
507110	Cyclohexyl phenylacetate		SP2	143	✓	✓	- P 3				42288-75-5	C/--	2916 3910

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502546	Cyclohexyl propionate	✓	SP3	69		✓	F P 3	2354	09.140	421	6222-35-1	C/--	2915 5000
500696	Decyl acetate	✓	NP2	>140	✓	✓	F P 2	2367	09.009	199	112-17-4	C/--	2915 3900
505234	Decyl butyrate	✓	SP2	>100	✓	✓	F P 2	2368	09.047	273	5454-09-1	C/--	2915 6019
156712	Diethyl adipate	✓	SP5	>100	✓	✓	F P 2		09.348		141-28-6	C/--	2917 1200
150682	Diethyl malonate FCC	✓	NP2	90	✓	✓	F P 2	2375	09.490	2106	105-53-3	C/M	2917 1910
156122	Dimethyl malonate	✓	SP5	81	✓	✓	F P 2		09.558	11754	108-59-8	C/M	2917 1910
153892	Ethyl 2,4-decadienoate (pear ester)	✓	NP	>110	✓	✓	F P 2	3148	09.260	10574	3025-30-7	C/M	2916 1995
501041	Ethyl 2-methylbutyrate FCC	✓	NP	26	✓	✓	F P 2	2443	09.409	265	7452-79-1	C/--	2915 6090
501036	Ethyl 2-methylvalerate	✓	SP1	39	✓	✓	F P 2	3488	09.526	10616	39255-32-8	C/M	2915 9070
503606	<i>trans</i> Ethyl hex-3-enoate (93+% <i>trans</i>)	✓	SP1	53	✓	✓	F P 2	3342	09.191		2396-83-0	C/--	2916 1995
150022	Ethyl acetoacetate	✓	NP2	65	✓	✓	F P 2	2415	09.402	240	141-97-9	C/M	2918 3000
500816	Ethyl caprate (ethyl decanoate)	✓	NP2	104	✓	✓	F P 2	2432	09.059	309	110-38-3	C/M	2915 9070
500836	Ethyl caprylate (ethyl octanoate) FCC	✓	NP2	80	✓	✓	F P 2	2449	09.111	392	106-32-1	C/M	2915 9070
500841	Ethyl crotonate FCC	✓	NP	2	✓	✓	F P 2	3486	09.248	2244	623-70-1	C/M	2916 1995
502566	Ethyl heptanoate FCC	✓	NP2	65	✓	✓	F P 2	2437	09.093	365	106-30-9	C/M	2915 9070
158366	Ethyl isobutyrate FCC	✓	NP2	15	✓	✓	F P 2	2428	09.413	288	97-62-1	C/M	2915 6019
152891	Ethyl lactate supra		SP3	55	✓	✓	F P 2	2440	09.433	371	97-64-3	C/M	2918 1100
500866	Ethyl laurate (ethyl dodecanoate) FCC	✓	NP2	>100	✓	✓	F P 2	2441	09.099	375	106-33-2	C/M	2915 9030
500214	Ethyl levulinate	✓	NP	90	✓	✓	F P 2	2442	09.435	373	539-88-8	C/M	2918 3000
500886	Ethyl myristate (ethyl tetradecanoate) FCC	✓	NP	>100	✓	✓	F P 2	2445	09.104	385	124-06-1	C/M	2915 9070
500906	Ethyl pelargonate (ethyl nonanoate)	✓	NP	92	✓	✓	F P 2	2447	09.107	388	123-29-5	C/M	2915 9070
151812	Ethyl phenylacetate	✓	NP2	91	✓	✓	F P 2	2452	09.784	2156	101-97-3	C/M	2916 3910
154632	Ethyl propionate FCC	✓	NP2	12	✓	✓	F P 2	2456	09.121	402	105-37-3	C/M	2915 5000
500090	Ethyl senecioate	✓	SP4	43	✓	✓	F P 2		09.365	10610	638-10-8	C/--	2916 1995

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502406	Ethyl sorbate	✓	SP1	75	✓	✓	F P 2	2459	09.194	635	2396-84-1	C/--	2916 1995
503426	Ethyl undecanoate	✓	SP1	119	✓	✓	F P 2	3492	09.274	10633	627-90-7	C/--	2915 9070
500951	Ethyl valerate FCC	✓	NP2	37	✓	✓	F P 2	2462	09.147	465	539-82-2	C/M	2915 6090
500114	Geranyl butyrate FCC	✓	SP2	>100	✓	✓	F P 2	2512	09.048	274	106-29-6	C/M	2915 6019
500996	Geranyl isobutyrate	✓	SP1	>100	✓	✓	F P 2	2513	09.431	306	2345-26-8	C/M	2915 6019
501676	Grapelione pure (basis: terpenmercaptans)		SP1	74	✓	✓	- P 3				91770-81-9	C/--	3302 9090
504056	Heptanal diethylacetal	✓	SP1	75	✓	✓	F P 2		06.021	553	688-82-4	C/--	2911 0000
501056	Heptyl acetate	✓	NP	70	✓	✓	F P 2	2547	09.022	212	112-06-1	C/--	2915 3900
501066	Heptyl butyrate	✓	NP	90	✓	✓	F P 2	2549	09.166	504	5870-93-9	C/M	2915 6019
500156	Heptyl formate	✓	SP3	60	✓	✓	F P 2	2552	09.074	341	112-23-2	C/M	2915 1300
503626	Heptyl isobutyrate	✓	SP3	85	✓	✓	F P 2	2550	09.420	295	2349-13-5	C/--	2915 6019
503856	Hexanal diethylacetal	✓	SP1	50	✓	✓	F P 2		06.023	557	3658-93-3	C/--	2911 0000
503946	Hexanal dimethylacetal	✓	SP2	40	✓	✓	F P 2		06.073		1599-47-9	C/--	2911 0000
503956	Hexanal propyleneglycol acetal	✓	SP2	64	✓	✓	F P 3	3630	06.094		1599-49-1	C/--	2911 0000
504086	<i>cis</i> -3-Hexenyl 2-methylbutyrate FCC	✓	SP1	84	✓	✓	F P 2	3497	09.854	2345	53398-85-9	C/--	2915 6090
502846	<i>cis</i> -3-Hexenyl benzoate	✓	SP1	141	✓	✓	F P 2	3688	09.806	11778	25152-85-6	C/M	2916 3100
503416	<i>cis</i> -3-Hexenyl butyrate	✓	SP1	80	✓	✓	F P 2	3402	09.270	11859	16491-36-4	C/M	2915 6019
504366	<i>cis</i> -3-Hexenyl caproate (<i>cis</i> -3-hexenyl hexanoate)	✓	SP1	103	✓	✓	F P 2	3403	09.271	11779	31501-11-8	C/M	2915 9070
506754	<i>cis</i> -3-Hexenyl isobutyrate	✓	SP2	74	✓	✓	F P 2	3929	09.563	11783	41519-23-7	C/M	2915 6019
504196	<i>cis</i> -3-Hexenyl isovalerate FCC	✓	SP1	86	✓	✓	F P 2	3498	09.505	2344	35154-45-1	C/M	2915 6090
500227	<i>cis</i> -3-Hexenyl propionate	✓	SP2	73	✓	✓	F P 2	3933	09.564	10683	33467-74-2	C/M	2915 5000
504166	<i>cis</i> -3-Hexenyl valerate	✓	SP1	91	✓	✓	F P 2	3936	09.571	10686	35852-46-1	C/M	2915 6090
501186	Hexyl 2-methylbutyrate FCC	✓	NP	90	✓	✓	F P 2	3499	09.507	4132	10032-15-2	C/M	2915 6090

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153771	Hexyl acetate FCC	✓	NP2	57	✓	✓	F P 2	2565	09.006	196	142-92-7	C/M	2915 3900
501106	Hexyl butyrate	✓	NP2	79	✓	✓	F P 2	2568	09.045	271	2639-63-6	C/M	2915 6019
501126	Hexyl caproate (hexyl hexanoate)	✓	NP	102	✓	✓	F P 2	2572	09.066	316	6378-65-0	C/M	2915 9070
500026	Hexyl crotonate FCC	✓	SP2	95	✓	✓	F P 2	3354	09.266	10688	19089-92-0	C/M	2916 1995
501141	Hexyl formate	✓	NP	43	✓	✓	F P 2	2570	09.161	499	629-33-4	C/M	2915 1300
501166	Hexyl isobutyrate	✓	NP2	71	✓	✓	F P 2	3172	09.478	646	2349-07-7	C/M	2915 6019
501176	Hexyl isovalerate FCC	✓	SP3	86	✓	✓	F P 2	3500	09.529	10692	10032-13-0	C/M	2915 6090
503196	Hexyl lactate	✓	SP3	>130		✓	F P 2		09.580		20279-51-0	C/--	2918 1100
500158	Hexyl phenylacetate	✓	SP2	>130	✓	✓	F P 2	3457	09.804	10694	5421-17-0	C/--	2916 3910
500123	Hexyl valerate	✓	SP1	90	✓	✓	F P 2		09.583	10696	1117-59-5	C/--	2915 6090
503266	Isoamyl 2-methylbutyrate	✓	SP1	64	✓	✓	F P 2	3505	09.530	10721	27625-35-0	C/--	2915 6090
158364	Isoamyl acetate	✓	NP2	36	✓	✓	F P 2	2055	09.024	214	123-92-2	C/M	2915 3900
154382	Isoamyl butyrate FCC	✓	NP2	60	✓	✓	F P 2	2060	09.055	282	106-27-4	C/M	2915 6019
500171	Isoamyl caprate (isoamyl decanoate)	✓	NP	>130	✓	✓	F P 2		09.598		2306-91-4	C/--	2915 9070
500186	Isoamyl caproate (isoamyl hexanoate) FCC	✓	SP1	85	✓	✓	F P 2	2075	09.070	320	2198-61-0	C/M	2915 9070
500196	Isoamyl caprylate (isoamyl octanoate)	✓	SP1	110	✓	✓	F P 2	2080	09.120	401	2035-99-6	C/M	2915 9070
503986	Isoamyl cinnamate FCC	✓	SP1	>130	✓	✓	F P 2	2063	09.742	335	7779-65-9	C/M	2916 3990
501076	Isoamyl formate FCC	✓	SP3	23	✓	✓	F P 2	2069	09.162	500	110-45-2	C/M	2915 1300
502896	Isoamyl heptanoate	✓	SP2	98	✓	✓	F P 2		09.599	10719	109-25-1	C/--	2915 9070
500776	Isoamyl isobutyrate	✓	SP1	53	✓	✓	F P 2	3507	09.419	294	2050-01-3	C/--	2915 6019
502296	Isoamyl lactate	✓	SP1	78	✓	✓	F P 2		09.601	10720	19329-89-6	C/--	2918 1100
500206	Isoamyl pelargonate (isoamyl nonanoate)	✓	SP1	120	✓	✓	F P 2	2078	09.110	391	7779-70-6	C/--	2915 9070
500216	Isoamyl phenylacetate FCC	✓	NP	>100	✓	✓	F P 2	2081	09.789	2161	102-19-2	C/M	2916 3910
500221	Isoamyl propionate FCC	✓	NP2	46	✓	✓	F P 2	2082	09.136	417	105-68-0	C/M	2915 5000

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500236	Isoamyl valerate	✓	NP	73		✓	F P 2		09.198	648	2050-09-1	C/--	2915 6090
502686	Isobutyl 2-methylbutyrate	✓	SP2	50	✓	✓	F P 2		09.585	10710	2445-67-2	C/--	2915 6090
500496	Isobutyl benzoate	✓	NP2	102	✓	✓	F P 2	2185	09.757	567	120-50-3	C/M	2916 3100
500441	Isobutyl butyrate FCC	✓	NP	44	✓	✓	F P 2	2187	09.043	269	539-90-2	C/M	2915 6019
500461	Isobutyl caproate (isobutyl hexanoate)	✓	NP	82	✓	✓	F P 2	2202	09.064	314	105-79-3	C/M	2915 9070
503526	Isobutyl crotonate FCC	✓	SP2	56	✓	✓	F P 2	3432	09.273	10706	589-66-2	C/--	2916 1995
500481	Isobutyl formate	✓	SP3	5	✓	✓	F P 2	2197	09.164	502	542-55-2	C/--	2915 1300
500521	Isobutyl isobutyrate	✓	NP2	44	✓	✓	F P 2	2189	09.417	292	97-85-8	C/--	2915 6019
500536	Isobutyl isovalerate FCC	✓	NP	53	✓	✓	F P 2	3369	09.472	568	589-59-3	C/M	2915 6090
500451	Isobutyl propionate	✓	NP2	33	✓	✓	F P 2	2212	09.125	406	540-42-1	C/--	2915 5000
503206	Isobutyl valerate	✓	SP2	60	✓	✓	F P 2		09.250	2303	10588-10-0	C/--	2915 6090
500701	Isodecyl acetate		SP3	96	✓	✓	- P 3				69103-24-8	C/--	2915 3900
501231	Isogrisal 7 C (basis: isononanal diethylacetal)		NP	50		✓	- P 3				86198-35-8	C/--	2911 0000
501246	Isonomilat 258 E (basis: isononanal methylantranilate)		NP	112	✓	✓	- P 3				67801-42-7	C/--	2925 2900
151262	Isononylaldehyde		SP4	45	✓	✓	- P 3	3524	05.116	10384	5435-64-3	C/M	2912 1900
157982	Isopropyl 2-methylbutyrate	✓	NP	32	✓	✓	F P 2	3699	09.547		66576-71-4	C/--	2915 6090
501971	Isopropyl butyrate	✓	SP1	26	✓	✓	F P 2	2935	09.041	267	638-11-9	C/--	2915 6019
502506	Isopropyl caproate (isopropyl hexanoate)	✓	SP1	58		✓	F P 2	2950	09.062	312	2311-46-8	C/--	2915 9070
504306	Isopropyl formate	✓	SP3	<-6	✓	✓	F P 2	2944	09.165	503	625-55-8	C/--	2915 1300
504376	Isopropyl isobutyrate	✓	SP2	18		✓	F P 2	2937	09.415	290	617-50-5	C/--	2915 6019
502021	Isopropyl isovalerate	✓	SP2	30	✓	✓	F P 2	2961	09.450	445	32665-23-9	C/--	2915 6090
500197	Isopropyl phenylacetate	✓	SP3	103	✓	✓	F P 3	2956	09.786	2158	4861-85-2	C/--	2916 3910

Art.-No.	Product name	K	SC	FP	TOSCA	EINECS	Status	FEMA	FLAVIS	COE	CAS	IFRA/ RIFM	Customs no.
504386	Isopropyl propionate	✓	SP2	15	✓	✓	F P 2	2959	09.123	404	637-78-5	C/--	2915 5000
504006	Isopropyl valerate	✓	SP2	41		✓	F P 2		09.609		18362-97-5	C/--	2915 6090
502041	Isotridecyl acetate (ITC acetate)		NP2	>100	✓	✓	- P 3				69103-23-7	C/--	2915 3900
501251	Isovertal 411 L (basis: isooctanal diethylacetal)		SP2	47	✓	✓	- P 3				69178-43-4	C/--	2911 0000
154752	Ketopommal (ethylacetoacetate ethylene glycol acetal)*		NP2	85	✓	✓	- P 3				6413-10-1	C/M	2918 9990
502806	Lauryl acetate (dodecyl acetate)	✓	SP2	>100	✓	✓	F P 2	2616	09.010	200	112-66-3	C/M	2915 3900
501316	Lilante 3275 P (lilial methylanthranilate)		SP1	195	✓	✓	- P 3				91-51-0	C/M	2925 2900
502916	Maltol butyrate		SP1	>130	✓	✓	- P 3				67860-01-9	C/--	2915 6019
501336	Maltol isobutyrate	✓	SP1	>130	✓	✓	F P 3	3462	09.525	10739	65416-14-0	C/--	2915 6019
501516	2-Methylbutyl 2-methylbutyrate	✓	SP1	65	✓	✓	F P 2	3359	09.516	10773	2445-78-5	C/--	2915 6090
157762	2-Methylbutyl acetate FCC	✓	NP	36	✓	✓	F P 2	3644	09.286	10762	624-41-9	C/--	2915 3900
502166	2-Methylbutyl butyrate	✓	SP2	58	✓	✓	F P 2		09.659		51115-64-1	C/--	2915 6019
503646	2-Methylbutyl caproate (2-methylbutyl hexanoate)	✓	SP2	86	✓	✓	F P 2		09.662	10768	2601-13-0	C/--	2915 9070
500851	2-Methylbutyl isobutyrate	✓	SP2	53		✓	F P 2		09.663	10770	2445-69-4	C/--	2915 6019
501536	2-Methylbutyl isovalerate	✓	SP2	75	✓	✓	F P 2	3506	09.531	10772	2445-77-4	C/--	2915 6090
503116	2-Methylbutyl propionate	✓	SP2	49	✓	✓	F P 2		09.665	10778	2438-20-2	C/--	2915 5000
501521	Methyl 2-methylbutyrate	✓	NP	18	✓	✓	F P 2	2719	09.483	2085	868-57-5	C/M	2915 6090
501506	Methyl 2-methylvalerate	✓	SP1	31		✓	F P 2	3707	09.549		2177-77-7	C/--	2915 9070
156882	Methyl non-3-enoate (90+% trans)	✓	SP1	88	✓	✓	F P 2	3710	09.298		13481-87-3	C/--	2916 1995
501351	Methyl butyrate FCC	✓	NP2	13	✓	✓	F P 2	2693	09.038	263	623-42-7	C/M	2915 6019
503286	Methyl caprate (methyl decanoate)	✓	SP2	>100	✓	✓	F P 2		09.251	2304	110-42-9	C/--	2915 9070
501391	Methyl caproate (methyl hexanoate)	✓	NP	43	✓	✓	F P 2	2708	09.069	319	106-70-7	C/M	2915 9070

Art.-No.	Product name	K	SC	FP	TOSCA	EINECS	Status	FEMA	FLAVIS	COE	CAS	IFRA/ RIFM	Customs no.
501406	Methyl caprylate (methyl octanoate)	✓	NP2	72	✓	✓	F P 2	2728	09.117	398	111-11-5	C/--	2915 9070
501411	Methyl crotonate	✓	NP	-1	✓	✓	F - 2		09.636		623-43-8	--/M	2916 1995
501421	Methyl heptanoate	✓	NP	56	✓	✓	F P 2	2705	09.096	368	106-73-0	C/M	2915 9070
501371	Methyl isobutyrate	✓	NP	2	✓	✓	F P 2	2694	09.412	287	547-63-7	C/--	2915 6019
501491	Methyl isovalerate	✓	SP1	20	✓	✓	F P 2	2753	09.462	457	556-24-1	C/--	2915 6090
502176	Methyl myristate (methyl tetradecanoate)	✓	NP	>100	✓	✓	F P 2	2722	09.106	387	124-10-7	C/--	2915 9070
501446	Methyl pelargonate (methyl nonanoate)	✓	SP2	81	✓	✓	F P 2	2724	09.108	389	1731-84-6	C/M	2915 9070
154542	Methyl phenylacetate	✓	NP	95	✓	✓	F P 2	2733	09.783	2155	101-41-7	C/M	2916 3910
501451	Methyl pivalate		SP2	6	✓	✓	F P 2			10790	598-98-1	C/--	2915 6090
503616	Methyl sorbate	✓	SP1	68	✓	✓	F P 2	3714	09.300		689-89-4	C/--	2916 1995
503636	Methyl undecanoate	✓	SP1	107	✓	✓	F P 2			10854	1731-86-8	C/--	2915 9070
501481	Methyl valerate	✓	NP	29	✓	✓	F P 2	2752	09.182	588	624-24-8	C/--	2915 6090
501556	Muscomer extra 810 P		NP2	>120	✓	✓	- P 3					C/--	3302 9090
501566	Muscomer J 3330 P		NP2	>130	✓	✓	- P 3					C/--	3302 9090
501576	Muscomer S 900 P		NP2	>130	✓	✓	- P 3					C/--	3302 9090
501386	Neryl butyrate	✓	SP1	118	✓	✓	F P 2	2774	09.167	505	999-40-6	C/--	2915 6019
501626	Neryl isobutyrate	✓	SP1	113	✓	✓	F P 2	2775	09.424	299	2345-24-6	C/M	2915 6019
501636	Neryl propionate	✓	SP1	120	✓	✓	F P 2	2777	09.169	509	105-91-9	C/M	2915 5000
501686	Octyl acetate FCC	✓	NP2	90	✓	✓	F P 2	2806	09.007	197	112-14-1	C/M	2915 3900
501696	Octyl butyrate	✓	SP1	104	✓	✓	F P 2	2807	09.046	272	110-39-4	C/M	2915 6019
503806	Octyl crotonate		SP2	119	✓	✓	- P 3				22874-79-9	C/--	2916 1995
501716	Octyl formate	✓	SP2	74	✓	✓	F P 3	2809	09.075	342	112-32-3	C/M	2915 1300
503326	Octyl isobutyrate FCC	✓	SP2	99	✓	✓	F P 2	2808	09.473	593	109-15-9	C/M	2915 6019
500016	Octyl isovalerate	✓	SP2	109	✓	✓	F P 2	2814	09.451	446	7786-58-5	C/--	2915 6090

Art.-No.	Product name	K	SC	FP	TOSCA	EINECS	Status	FEMA	FLAVIS	COE	CAS	IFRA/ RIFM	Customs no.
501546	3-Phenylpropyl acetate	✓	SP2	130	✓	✓	F P 2	2890	09.032	222	122-72-5	C/M	2915 3900
502636	3-Phenylpropyl isovalerate	✓	SP1	>100		✓	F P 3	2899	09.467	462	5452-07-3	C/--	2915 6090
502696	Phenylethyl 2-methylbutyrate	✓	NP	>130	✓	✓	F P 2	3632	09.538	10883	24817-51-4	C/M	2915 6090
502146	Phenylethyl benzoate	✓	SP3	>130	✓	✓	F P 2	2860	09.774	667	94-47-3	C/M	2916 3100
501766	Phenylethyl butyrate FCC	✓	SP1	118	✓	✓	F P 2	2861	09.168	506	103-52-6	C/M	2915 6019
502326	Phenylethyl caprylate (phenylethyl octanoate)	✓	SP3	>100	✓	✓	F P 2	3222	09.262	10884	5457-70-5	C/--	2915 9070
503926	Phenylethyl crotonate	✓	SP2	>100	✓	✓	F P 2		09.684	10880	68141-20-8	C/--	2916 1995
501816	Phenylethyl isovalerate FCC	✓	NP	>100	✓	✓	F P 2	2871	09.466	461	140-26-1	C/M	2915 6090
502616	Phenylethyl pivalate		SP2	111	✓	✓	- P 3				67662-96-8	C/M	2915 6090
501796	Phenylethyl propionate	✓	SP1	>100	✓	✓	F P 2	2867	09.137	418	122-70-3	C/M	2915 5000
500072	Phenylethyl senecioate	✓	SP4	>135	✓	✓	F P 2	2869	09.407	246	42078-65-9	C/--	2916 1995
501806	Phenylethyl valerate	✓	SP3	>100	✓	✓	F P 2		09.201	673	7460-74-4	C/--	2915 6090
153671	Pommelione supra (<i>o-tert</i> -Butylcyclohexyl acetate)*		NP2	90	✓	✓	- P 3				88-41-5	C/M	2915 3900
503356	Propyl 2-methylbutyrate	✓	SP1	42		✓	F P 2		09.698	10891	37064-20-3	C/--	2915 6090
153851	Propyl acetate FCC	✓	NP2	10	✓	✓	F P 2	2925	09.002	192	109-60-4	C/M	2915 3900
502966	Propyl benzoate	✓	SP3	99	✓	✓	F P 2	2931	09.776	677	2315-68-6	C/--	2916 3100
501871	Propyl butyrate	✓	SP2	35	✓	✓	F P 2	2934	09.040	266	105-66-8	C/M	2915 6019
503726	Propyl caprate (propyl decanoate)	✓	SP3	115		✓	F P 2		09.700		30673-60-0	C/--	2915 9070
501896	Propyl caproate (propyl hexanoate)	✓	SP1	63	✓	✓	F P 2	2949	09.061	311	626-77-7	C/--	2915 9070
501906	Propyl caprylate (propyl octanoate)	✓	SP3	91	✓	✓	F P 2		09.816	10892	624-13-5	C/M	2915 9070
502626	Propyl formate	✓	SP3	-5	✓	✓	F P 2	2943	09.073	340	110-74-7	C/--	2915 1300
501946	Propyl heptanoate	✓	SP3	77		✓	F P 2	2948	09.095	367	7778-87-2	C/--	2915 9070

Art.-No.	Product name	K	SC	FP	TOSCA	EINECS	Status	FEMA	FLAVIS	COE	CAS	IFRA/ RIFM	Customs no.
501931	Propyl isobutyrate	✓	SP1	29		✓	F P 2	2936	09.414	289	644-49-5	C/--	2915 6019
501951	Propyl isovalerate	✓	SP2	47		✓	F P 2	2960	09.448	443	557-00-6	C/--	2915 6090
501966	Propyl phenylacetate	✓	SP2	106	✓	✓	F P 2	2955	09.702	229	4606-15-9	C/--	2916 3910
501911	Propyl propionate	✓	SP1	22	✓	✓	F P 2	2958	09.122	403	106-36-5	C/M	2915 5000
501921	Propyl valerate	✓	SP2	52		✓	F P 2		09.202	679	141-06-0	C/--	2915 6090
502191	Sandelione 3480 P (tricyclodecane methylol acetate)		SP5	>130	✓	✓	- P 3				30772-69-1	C/--	2915 3900
502206	Sandelione supra 3560 P (basis: tricyclodecane methylol acetate)		SP5	124	✓	✓	- P 3					C/--	3302 9090
503026	Thiogeraniol (10 % in triethylcitrate)		SP1	ca. 85	✓	✓	- P 3					C/--	3302 9090
503136	Thiogeraniol pure		NP	60	✓	✓	- P 3					C/--	3302 9090
500102	Thiogeraniol supra	✓	SP1	53	✓	✓	- P 3					C/--	3302 9090
503406	Vertelione (<i>cis</i> -3-hexenyl methylcarbonate)		NP	76	✓	✓	- P 3				67633-96-9	C/--	2920 9010
156162	Vertenol acetate (prenyl acetate)	✓	NP	46	✓	✓	F P 2	4202	09.692	11796	1191-16-8	C/M	2915 3900
502216	Vetysantal 3559 P (basis: tricyclodecane methylol acetate)		SP5	127	✓	✓	- P 3					C/--	3302 9090
152142	Woodinyl acetate (4-methyl 4-phenyl 2-pentyl acetate)		SP3	115	✓	✓	- P 3				68083-58-9	C/--	2915 3900

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ALCOHOLS AND CARBOXYLIC ACIDS PRODUCT LIST



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In explanation of our abbreviations:

SC	Conditions of sale: NP = Standard Product (as a rule available ex stock in quantities of 1 kg, 5 kg, ...) NP2 = Standard Product (as a rule available ex stock in quantities of 5 kg, 10 kg, ...) SP1 = Special Product (production only against firm order in quantities of 1 kg, 5 kg, ...) SP2 = Special Product (production only against firm order in quantities of 5 kg, 10 kg, ...) SP3 = Special Product (production only against firm order in quantities of 10 kg, 25 kg, ...) SP4 = Special Product (production only against firm order in quantities of 25 kg, 50 kg, ...) SP5 = Special Product (production only against firm order in quantities of 50 kg, 100 kg, ...) as long as we have a remaining stock of the above special products, we will sell them in any of our standard quantities of 1 kg, 5 kg, 10 kg, 25 kg, 50 kg, 100 kg, 170 kg.
* (as mark after product name)	After sale only available as custom synthesis, if raw material available
FP	Flash point (Degrees Centigrade - Closed cup method)
Status	F = Flavour material P = Fragrance material 1 = Natural flavours and natural flavouring substances 2 = Nature identical flavouring substances 3 = Artificial flavouring substances
FEMA	FEMA-GRAS list number
FLAVIS	FLAVIS number
COE	Council of Europe list number
CAS	Chemical Abstracts number

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TOSCA	Toxic Substances Control Act
EINECS	European Inventory of Existing Commercial Chemical Substances
K	Kosher certificate available (Rabbinically attested)
IFRA	Recommendations of the International Fragrance Association for the safe use of restricted fragrance materials
RIFM	Research Institute for Fragrance Materials
M	Monograph available by RIFM
C	The product is not restricted by IFRA
Customs No.	International customs identification number for import / export

Conditions of sale:

Prices	Generally our prices are quoted in €/kg ex works, customs unpaid. The prices are effective for the current year. However we reserve the right to increase any individual price, if production costs increase.
Small quantities	Orders of less than one kilo will be accepted but will involve an additional charge of € 25,-- per item
Large quantities	Please inquire bulk prices for quantities of more than 2 drums (> 340 kg) within one order
Kosher certificate	For aroma chemicals with an official rabbinical certificate we have to invoice an extra charge of 3%

Odor description for our fragrance materials:

More information is available with our data sheets for each product

Art.-No.	Product name	K	SC	FP	TOSCA	EINECS	Status	FEMA	FLAVIS	COE	CAS	IFRA/ RIFM	Customs no.
160041	n-Amyl alcohol (pentan-1-ol) FCC	✓	SP2	49	✓	✓	F P 2	2056	02.040	514	71-41-0	C/--	2905 1900
180063	Benzoic acid	✓	SP2	122	✓	✓	F P 2	2131	08.021	21	65-85-0	C/M	2916 3100
160071	Benzyl alcohol	✓	SP2	101	✓	✓	F P 2	2137	02.010	58	100-51-6	C/M	2906 2100
160081	Butan-1-ol	✓	SP2	35	✓	✓	F P 2	2178	02.004	52	71-36-3	C/--	2905 1300
180101	Butyric acid	✓	SP2	69	✓	✓	F P 2	2221	08.005	5	107-92-6	C/M	2915 6019
180182	Capric Acid (decanoic acid)	✓	SP2	150	✓	✓	F P 2	2364	08.011	11	334-48-5	C/M	2915 9070
180121	Caproic acid (hexanoic acid)	✓	SP2	104	✓	✓	F P 2	2559	08.009	9	142-62-1	C/M	2915 9070
180172	Caprylic acid (octanoic acid)	✓	SP2	130	✓	✓	F P 2	2799	08.010	10	124-07-2	C/M	2915 9070
180133	Crotonic acid (but-2-enoic acid)	✓	SP1	89	✓	✓	F P 2	3908	08.072	10080	3724-65-0	C/--	2916 1940
160021	Decan-1-ol FCC	✓	SP2	95	✓	✓	F P 2	2365	02.024	73	112-30-1	C/M	2905 1900
180022	Formic acid	✓	SP2	48	✓	✓	F - 2	2487	08.001	1	64-18-6	--/--	2915 1100
180332	Heptanoic acid	✓	SP2	118	✓	✓	F P 2	3348	08.028	28	111-14-8	C/--	2915 9070
160141	Heptan-1-ol FCC	✓	SP2	75	✓	✓	F P 2	2548	02.021	70	111-70-6	C/M	2905 1900
160421	Hexan-1-ol FCC	✓	SP2	61	✓	✓	F P 2	2567	02.005	53	111-27-3	C/M	2905 1900
160151	Isoamyl alcohol (3-methyl butan-1-ol)	✓	SP2	45	✓	✓	F P 2	2057	02.003	51	123-51-3	C/M	2905 1900
160161	Isobutanol (2-methyl propanol)	✓	SP2	28	✓	✓	F P 2	2179	02.001	49	78-83-1	C/--	2905 1490
180232	Isobutyric acid	✓	SP2	59	✓	✓	F P 2	2222	08.006	6	79-31-2	C/--	2915 6019
160442	Isotridecyl alcohol (Fixateur ITC)		SP2	118	✓	✓	- P 3				68526-86-3	C/--	2905 1900
180242	Isovaleric acid FCC	✓	SP2	74	✓	✓	F P 2	3102	08.008	8	503-74-2	C/M	2915 6090
180262	Lactic acid 80 %	✓	SP2	> 110	✓	✓	F P 2	2611	08.004	4	79-33-4	C/--	2918 1100
180292	Lauric acid	✓	SP2	156	✓	✓	F P 2	2614	08.012	12	143-07-7	C/M	2915 9030
160542	Lauryl alcohol	✓	SP2	119	✓	✓	F P 2	2617	02.008	56	112-53-8	C/M	2905 1700
180282	Levulinic acid	✓	SP5	137	✓	✓	F P 2	2627	08.023	23	123-76-2	C/M	2918 3000
160241	2-Methyl butan-1-ol	✓	SP2	42	✓	✓	F P 2	3998	02.076	2346	137-32-6	C/--	2905 1900

Art.-No.	Product name	K	SC	FP	TOSCA	EINECS	Status	FEMA	FLAVIS	COE	CAS	IFRA/ RIFM	Customs no.
180302	2-Methyl butyric acid	✓	SP1	77	✓	✓	F P 2	2695	08.046	2002	116-53-0	C/--	2915 6090
180322	2-Methyl valeric acid	✓	SP1	91	✓	✓	F P 2	2754	08.031	2754	97-61-0	C/M	2915 9070
180603	Myristic acid	✓	SP2	175	✓	✓	F P 2	2764	08.016	16	544-63-8	C/--	2915 9070
160431	Octan-1-ol FCC	✓	SP2	82	✓	✓	F P 2	2800	02.006	54	111-87-5	C/M	2905 1685
180672	Pelargonic acid (n-nonanoic acid)	✓	SP2	140	✓	✓	F P 2	2784	08.029	29	112-05-0	C/M	2915 9070
160271	Phenylethyl alcohol	✓	SP2	102	✓	✓	F P 2	2858	02.019	68	60-12-8	C/M	2906 2900
160291	Propan-1-ol	✓	SP2	15	✓	✓	F P 2	2928	02.002	50	71-23-8	C/--	2905 1200
180382	Propionic acid	✓	SP2	50	✓	✓	F P 2	2924	08.003	3	79-09-4	C/--	2915 5000
180532	Valeric acid FCC	✓	SP2	86	✓	✓	F P 2	3101	08.007	7	109-52-4	C/--	2915 6090

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EMULSIFIERS



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Art.-No.	Product name	Type	Active ingredients	Uses
530055	Emulsifier 17 P	non-ionic	ethoxylated and propoxylated castor oil fractions	Emulsifier for faintly foaming products like fragrances in water
530045	Homulgator 1330 G	non-ionic	ethoxylated fatty alcohols and saturated fatty acid-glycerides	W/O Emulsifier
530025	Homulgator 920 G	non-ionic	Myristyl-, Cetyl- and Stearylalcohol in combination with Myreth-4, Cetareth-15 and Cetareth-25	O/W Emulsifier, works well with anionic, cationic and non-ionic emulsifiers and remains stable in acid and alkaline medium

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ACTIVE SUBSTANCES FOR COSMETIC



Art.-No.	Product name	Customs no.
610533	A.H.A. Complex 3470 G/A	2917 1990
610603	Avocado oil hydrosoluble 3642 G	3402 9010
590044	Bactiphen 2506 G (Formaldehydfree)	3808 9990
610373	Joboba oil hydrosoluble 2671 G	3402 9010
514667	Carotin oil 2993 G	1507 9090
610593	Sweet-almond oil hydrosoluble 3641 G	3402 9010
610838	Mink oil hydrosoluble 3723 G/A	3402 9010
610858	Olive oil hydrosoluble 3989 G	3402 9010
610553	Peachkernel oil hydrosoluble 3610 G	3402 9010
610880	Sunflower oil hydrosoluble 3721 G/A	3402 9010
610818	Tocopherol DL-alpha hydrosoluble 3017 G/A	2936 9000
610879	Vitamin - A, E, F - Complex 2903 G/D	2936 9000
610303	Vitamin - Horse Chesnut - Complex 114 P	2936 9000
610778	Wheat germ oil hydrosoluble 3497 G	3402 9010