

# GRAU AROMATICS GmbH & Co. KG

Bismarckstr. 4 • D-73525 Schwäbisch Gmünd

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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