Aroma Glucosides ROTICHROM® HPLC

Flavour up your **HPLC!**

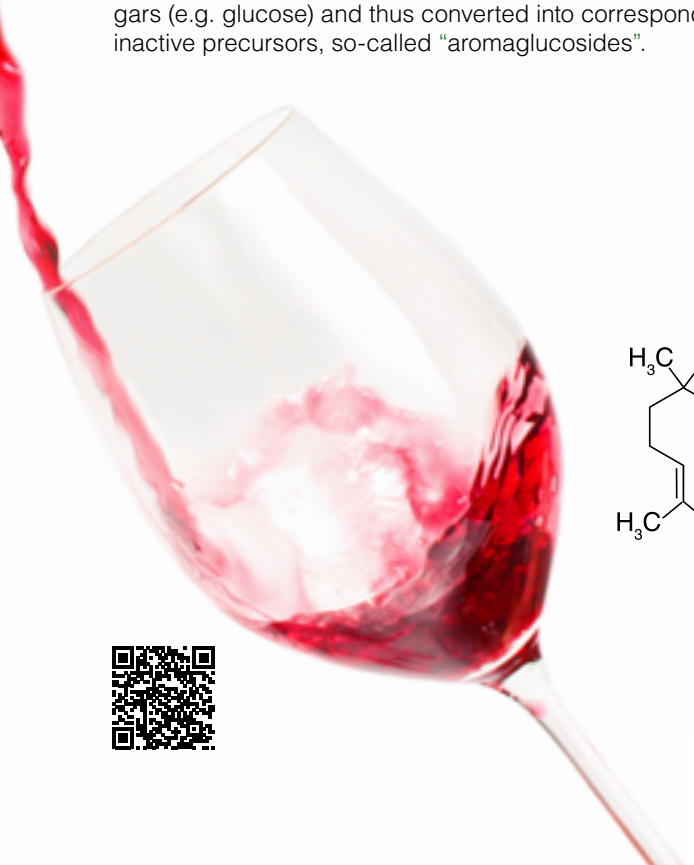
Flavour, fragrance and aroma substances have a decisive influence on our perception. Since many odorous and flavouring substances are very volatile and their chemical stability is limited, the desired effect quickly wears off in many cases. In many foods, hygiene products such as deodorants, liners and pads, as well as in perfumes and cosmetics, substances are already used that can be activated at the push of a button, so to speak, when they are needed - in other words, "flavour-on-demand".

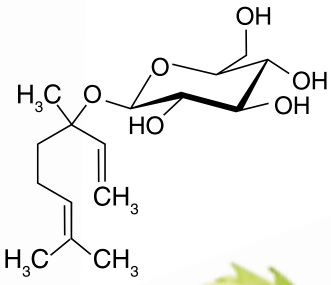
This principle has long been known in nature - "flowers do not need to smell at night". In plants, corresponding odour and taste substances such as those found in fruits, wine or tea are linked by enzymes (glycosyltransferases) with various sugars (e.g. glucose) and thus converted into correspondingly inactive precursors, so-called "aromaglucosides".

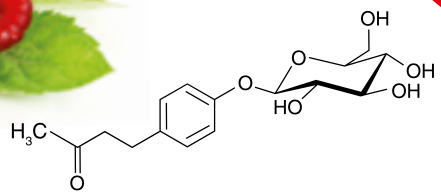
Triggers such as heating, enzymes (glucosidases) or their activation during use or microbial degradation, the flavour and fragrance substances are released again in their active form, thus releasing the desired aroma. The only by-product of this release is glucose, i.e. dextrose.

The targeted release of flavour and fragrance compounds can give products an enhanced sensory profile and thus unparalleled performance.
With our **ROTICHROM® HPLC standards** you can now identify these additives.

- Readily soluble in water
- No longer volatile
- Chemically stable
- Can be stored for longer







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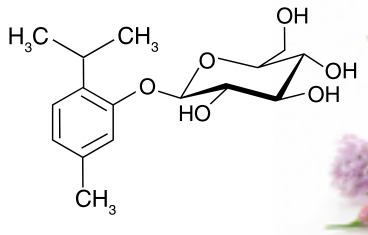
Product name	Released Aroma Compound, Name	Released Aroma Compound, CAS No.	Released Aroma Compound, Occurrence	Released Aroma Compound, Aroma	Art. No.
Benzyl alcohol glucoside	Benzyl alcohol	100-51-6	balsam bush (*Cedronella canariensis*)	sweet, fruity	**1K58.1**
(–)-Borneol glucoside	(–)-Borneol	464-45-9	thyme (*Thymus vulgaris*)	balsamic, camphor-like, herbs, woody	**1K4H.1**
Carvacrol glucoside	Carvacrol	499-75-2	oregano (*Origanum vulgare*), *Lavandula multifida*, *Monarda punctata*, Sesame oil	spicy, cooling, thyme, herbs	**1K51.1**
L-Carveol glucoside	L-Carveol	99-48-9	*Citrus sp.*, *Hibiscus sabdariffa*	mint, caraway	**1K4L.1**
Cinnamyl alcohol glucoside	Cinnamyl alcohol	104-54-1	precursors of and occurrences besides cinnamaldehyde (*Cinnamomum sp.*), *Rhodiola sachalinensis*	sweetly balsamic, hyacinth-scen-ted needles	**1K4N.1**
Citronellol glucoside	Citronellol	106-22-9	tea (*Camellia sinensis*), wine (*Vitis vinifera*), hops (*Humulus lupulus*)	citrus, rose, floral	**1K5C.1**
Ethylmaltol glucoside	Ethylmaltol	4940-11-8	flavour enhancer (E 637)	sweet, sugary, caramel, marmalade-like, strawberry-like	**1K52.1**
Eugenol glucoside	Eugenol	97-53-0	*Citrus sp.*, many plant species	pleasant, spicy, clove-like	**1K55.1**
Furaneol glucoside	Furaneol	3658-77-3	pineapple (*Ananas comosus*)	caramel	**1K4T.1**
Geraniol glucoside	Geraniol	106-24-1	tea (*Camellia sinensis*), wine (*Vitis vinifera*), hops (*Humulus lupulus*), *Ephedra sp.*, Chinese medicinal plants	floral, sweet, rose	**1K4X.1**
Guaiacol glucoside	Guaiacol	90-05-1	anise (*Pimpinella anisum*), willow (*Salix caprea*), *Acanthopanax brachypus*	smoky-medicinal scent	**1K56.1**
1-Hexanol glucoside	1-Hexanol	111-27-3	guava aroma, seeds of the hogweed and in the fusel oil during alcoholic fermentation, etc.	sweet with a fresh green top note, herbaceous leg note	**1K4K.1**
cis-3-Hexen-1-ol glucoside	*cis*-3-Hexen-1-ol	928-96-1	tea (*Camellia sinensis*), thyme (*Thymus vulgaris*), Chinese medicinal plants, many plant species	freshly cut grass	**1K5E.1**
Homofuraneol glucoside, isomer mixture	Homofuraneol, isomer mixture	27538-09-6	unknown	caramel	**1K57.1**
L-Linalool glucoside	L-Linalool	126-91-0	tea (*Camellia sinensis*), wine (*Vitis vinifera*), hops (*Humulus lupulus*)	citrus, orange, floral, rose	**1K54.1**
Maltol glucoside	Maltol	118-71-8	pomegranate (*Punica granatum*), various plants	sweet, caramel, candyfloss	**1K5L.1**
L-Menthol glucoside	L-Menthol	2216-51-5	peppermint (*Mentha x piperata*), spearmint (*Mentha spicata*)	mint, cool	**1K5K.1**
Methyl anthranilate glucoside	Methylanthranilate	134-20-3	cocoa, coffee, grapes, grapefruit, jasmine, lemons, limes, strawberries and tangerines as well as in many flower oils (e.g. neroli, ylang-ylang oil)	fruity, grape, orange blossom	**1K59.1**
Myrtenol glucoside	Myrtenol	515-00-4	*Perilla frutescens*, *Platychaete aucheri* (as 6'-*O*-actetate)	camphor, woody, cooling	**1K4E.1**
Nerol glucoside	Nerol	106-25-2	tea (*Camellia sinensis*), wine (*Vitis vinifera*), hops (*Humulus lupulus*)	fresh, citrus, floral, green	**1K4P.1**
1-Octen-3-ol glucoside	1-Octen-3-ol	3391-86-4	oregano (*Origanum vulgare*), clover (*Trifolium sp.*), *Sanchezia nobilis*	mushroom, musty scent	**1K53.1**
Paracetamol glucoside	Paracetamol	103-90-2	produced in paracetamol-contaminated waste water by plant roots	bitter	**1K50.1**
S-(–)-Perillyl alcohol glucoside	*S*-(–)-Perillyl alcohol	18457-55-1	*Perilla frutescens*	floral	**1K5N.1**
2-Phenylethanol glucoside	2-Phenylethanol	60-12-8	oregano (*Origanum vulgare*), many plants, Chinese and Tibetan medicinal plants	rose, floral	**1K5P.1**
Raspberry ketone glucoside	Raspberry ketone	5471-51-2	raspberry (*Rubus idaeus*), rhubarb relatives (*Rheum sp.*)	raspberry, sweet, woody, fruity	**1K5A.1**
Sesamol glucoside	Sesamol	533-31-3	sesame oil	sesame	**1K5X.1**
α-Terpineol glucoside	α-Terpineol	98-55-5	*Citrus sp.*	piney, woody, resinous	**1K5T.1**
Thymol glucoside	Thymol	89-83-8	thyme (*Thymus vulgaris*), oregano (*Origanum vulgare*), *Ziziphus jujuba*	herbs, thyme, medicinal camphor	**1K4Y.1**
Vanillin alcohol glucoside	Vanillin alcohol	498-00-0	occurrence next to vanilloside, vanilla (*Vanilla planifolia*)	sweet, creamy vanilla	**1K5H.1**

Available container size: 25 mg.
Further sizes available on request.

Safety-relevant data and additional information in the current catalogue or at www.carlroth.com



Contact international

Phone +49 721/5606 510 · Fax +49 721/5606 111 · info@carlroth.com · www.carlroth.com

Carl Roth GmbH + Co. KG · Schoemperlenstr. 3-5 · D-76185 Karlsruhe

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