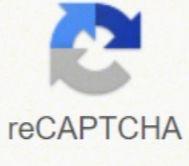




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**Open**

II	Synthesis of Isopentyl Acetate
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**Objectives**

To prepare isopentyl acetate from isopentanol and acetic acid by the Fischer esterification reaction.

**Introduction**

Isopentyl acetate is a colorless liquid with a strong, sweet, fruity odor. It is a natural component of the essential oils of many flowers and fruits. It is also used in the perfume industry as a fragrance. Table 1 below shows the flavors of isopentyl acetate associated with other esters.

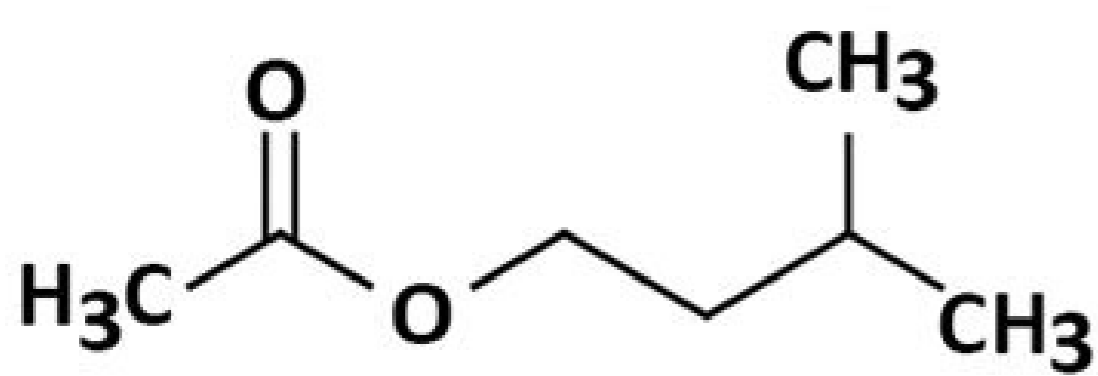
Other Ester	Flavor
Isopentyl acetate	Strawberry
Isopentyl propionate	Apple
Isopentyl butyrate	Pineapple
Isopentyl valerate	Orange
Isopentyl hexanoate	Blackberry
Isopentyl heptanoate	Strawberry
Isopentyl octanoate	Apple
Isopentyl nonanoate	Pineapple
Isopentyl decanoate	Orange

Table 1. Esters and their corresponding flavors.



Name	Flavor or Fragrance
Propyl acetate	Pears
Octyl acetate	Oranges
Isoamyl acetate	Banana
Ethyl Butyrate	Pineapple
Butyl acetate	Apple
Methyl trans-cinnamate	Strawberry

Natural



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## ARTIFICIAL STRAWBERRY FLAVOR

- Amyl acetate
- Amyl butyrate
- Amyl valerate
- Anethol
- Anisyl formate
- Benzyl acetate
- Benzyl isobutyrate
- Butyric acid
- Cinnamyl isobutyrate
- Cinnamyl valerate
- Cognac essential oil
- Diacetyl
- Dipropyl ketone
- Ethyl acetate
- Ethyl amyketone
- Ethyl butyrate
- Ethyl cinnamate
- Ethyl heptanoate
- Ethyl heptylate
- Ethyl lactate
- Ethyl methylphenylglycidate
- Ethyl nitrate
- Ethyl propionate

Continued...

What does pentyl ethanoate smell like.

As suppliers/distributors of ingredients for the perfume and flavor industries, our goal is to provide high quality materials competitive prices with an exceptional level of service. Email:Info Item:34 93 379 38 49 Fax:34 93 370 65 04 LinkedIn GSC101551103134 GSC101551103134 Products: AMYL FORMATE Penta International Corporation Chemical Innovation In Penta, our products and services help companies to do business better. Founded in 1984, SRS Aromatics Ltd is an independent family business that has become highly respected within the perfume and flavor industry as a reliable and reliable partner. We also offer customized synthesis solutions. Family business dedicated to sales and distribution Flexibility, availability, price and quality. Email:Info Email:Sales Item:+44 (0) 1284 704076 Fax:+44 (0) 1284 760819 Twitter LinkedIn News GSC101551103134 GSC101551103134 Products: AMILE FORMAT INNOVATION. More than 30,000 Reagents are now available in benchtop to bulk. We create perfumes and flavors for the most desired brands in the world. Owned Swiss and familiar, we have created many of the world's favorite perfumes for over 100 years and produced a range of the most well-known flavors that we enjoy every day. For over 30 years, Penta Manufacturing Company has played an increasing role in chemistry innovations and applications worldwide. US Email:Sales Email:Technical Voice Support:1-800-423-8616 Fax:1-888-520-1075 Facebook Twitter Instagram LinkedIn GSC101551103134 GSC101551103134 Product(s): F0049 Amyl formate >95.0%(GC) SDS Category:aromatic agents and perfumants US / EU / FDA / JECA / FEMA / FLAVIS / Scholar / Patent Information: Property physical: Property Organoleptic: Cosmetic information: Suppliers: Safety information: Safety information during use: Safety references: References: Other .obtc .obtc .arutan( aznerrocco :ilaiznetop isU aton ilapicnirp itnenopmoc e irotalecsim ilaiznetoP Synonyms: fruit topnots. Synerzine expresses there that we grew to embody as an organization - the synergy and connection between raw ingredients, science, technology and the final product. Found in strawberry fruit, tomato, fried pork powder, cognac and honey. Aromatic ingredients. Building on our 44-year history, the Synerzine team offers customers around the world with convenient access to over 1200 high quality aroma ingredients. Customization. We provide our customers with the true value designed to help them bring their products to market faster. Our experienced team is passionate about bringing our customers high quality innovative ingredients that they can trust. Firmenich is the largest company owned in the perfume and flavor sector. 96% Kosher Pentil Formate brings a fleshy and earthy profile very unique to applications of fruit and alcohol. Synerzine is a leading supplier of flavor and fragrance ingredients. US Email: Fred Keifer US Voice: +1 609 452 1000 US Fax: +1 609 452 6077 Facebook Twitter Instagram LinkedIn GSC101551103134 GSC101551103134 Product(s): 943650 Pentyl Min. Over the years this has allowed the company to develop strong relationships with many global producers; Many of whom we represent in the United Kingdom. A excellent for bananas, cola, caffè, red fruit and rum flavors. Our products and expertise have helped fuel technical progress in dozens of commercial applications including flavoring, coloring, fragrances and chemical processes. As an industry leader, PENTA continues to pioneer chemical-based solutions for virtually every area of commerce. Sign up for a TCI account today for fast and free shipping! Tokyo Chemical Industry Co., Ltd. More than 70 years of experience synthesis and multi-use facilities allow TCI to offer over 1000 products worldwide. Email:Sales US Email: Sales US Voice: (973) 740-2300 US Fax: (973) 740-2300 US FAX: (973) 740-1839 GSC101 551 103 134 GSC101 551 103 134 GSC101 551 103 134 PRODUCT (s): 01-31 400 N-AMYL Formed for over 25 years bringing flavor and fragrance to your world. With distribution centres on the East and West Coast, rely on TCI to deliver products quickly and reliably. TCI provides laboratory biological chemicals as well as pharmaceutical, cosmetic and functional materials. (TCI) is a leading global producer of specialty organic chemicals founded in 1946. USA E-mail: Customer Service Email: Sales US Voice: (404) 524-6744 US Fax: (404) 577-1651 Inquiry Product list: View GSC101 551 103 134 GSC101 551 103 134 Product (s): W0139 N-Amil Formats Moving Your Chemistry Forward We continuously strive to make progress our technology. Used in fruit flavouring food products a main objective of our business is to work extremely closely with our suppliers and our customers to maximize service levels with minimum disruption to be provided. Our goal is to delight every customer with our exceptional services, great selection of products, customization and the highest standards of quality and safety. standard.



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