>>**Entry Name: 3-Hexenoic acid,** 9CI
ENTRY UNDER REVIEW
Synonym(s): 2-Pentene-1-carboxylic acid. Hydrosorbic acid. FEMA 3170

CAS Registry Number: 4219-24-3
Related CAS Registry Numbers(s): 1775-43-5

$H_3CCH_2CH=CHCH_2COOH$

Molecular Formula: $C_6H_{10}O_2$
Molecular Weight: 114.144
Accurate Mass: 114.06808
Percentage Composition: C 63.14%; H 8.83%; O 28.03%
Biological Source: Isol. from raspberry (*Rubus idaeus*) and tea (*Thea sinensis*)
Use/Importance: Used in tea flavouring
Melting Point: Mp 12°
Boiling Point: Bp 208°. Bp_{22} 118-119°

Aldrich: W31700-4

>>**Variant:** (*E*)-form
CAS Registry Number: 1577-18-0
Molecular Formula: $C_6H_{10}O_2$
Molecular Weight: 114.144
Accurate Mass: 114.06808
Percentage Composition: C 63.14%; H 8.83%; O 28.03%
Aldrich: 19309-7

>>**Derivative:** Me ester

CAS Registry Number: 2396-78-3

Molecular Formula: $C_7H_{12}O_2$
Molecular Weight: 128.171
Accurate Mass: 128.08373
Percentage Composition: C 65.60%; H 9.44%; O 24.97%
Biological Source: Constit. of *Asteriscus graveolens*, minor constit. of pineapples
Boiling Point: Bp_{34} 67-68°
Other Data: (*E*)-config. assumed

>>**Derivative:** Et ester
Synonym(s): FEMA 3342

CAS Registry Number: 2396-83-0

Molecular Formula: $C_8H_{14}O_2$
Molecular Weight: 142.197
Accurate Mass: 142.09938
Percentage Composition: C 67.57%; H 9.92%; O 22.50%
Biological Source: Present in various fruits
Use/Importance: Flavouring agent
Physical Description: Liq. with green, fruity aroma
Boiling Point: Bp_{12} 63-64°
Refractive Index: n_D^{20} 1.4260
Aldrich: 34029-4

>>**Derivative:** 2-Propenyl ester

CAS Registry Number: 167773-28-6

Molecular Formula: $C_9H_{14}O_2$
Molecular Weight: 154.208
Accurate Mass: 154.09938
Percentage Composition: C 70.10%; H 9.15%; O 20.75%
Biological Source: Constit. of the rhizomes of *Ligusticum chuanxiong*
Other Data: (*E*)-config. assumed