>>**Entry Name: 2-Decenoic acid**
**ENTRY UNDER REVIEW**

**CAS Registry Number:** 3913-85-7
$H_3C(CH_2)_6CH=CHCOOH$

**Molecular Formula:** $C_{10}H_{18}O_2$
**Molecular Weight:** 170.251
**Accurate Mass:** 170.13068
**Percentage Composition:** C 70.55%; H 10.66%; O 18.80%

>>**Variant:** (*E*)-form

**CAS Registry Number:** 334-49-6

**Molecular Formula:** $C_{10}H_{18}O_2$
**Molecular Weight:** 170.251
**Accurate Mass:** 170.13068
**Percentage Composition:** C 70.55%; H 10.66%; O 18.80%
**Biological Source:** Constit. of essential oil of *Achasma walang*. ALso occurs in pear capsicum, mutton pork and black tea
**Use/Importance:** Mosquito (*Aedes aegypti*) repellant. Comly. available flavour ingredient
**Physical Description:** Liq. or solid with fresh, sweet fruity-fatty odour
**Melting Point:** Mp 12°
**Boiling Point:** $Bp_{15}$ 165°. $Bp_{4.5}$ 148-149°

>>**Derivative:** Chloride

**CAS Registry Number:** 110232-46-7
**Molecular Formula:** $C_{10}H_{17}ClO$
**Molecular Weight:** 188.696
**Accurate Mass:** 188.096792
**Percentage Composition:** C 63.65%; H 9.08%; Cl 18.79%; O 8.48%
**Boiling Point:** $Bp_{14}$ 120-122°. $Bp_{2.5}$ 95-97°

>>**Derivative:** Amide

**Molecular Formula:** $C_{10}H_{19}NO$
**Molecular Weight:** 169.266
**Accurate Mass:** 169.146664
**Percentage Composition:** C 70.96%; H 11.31%; N 8.27%; O 9.45%
**Physical Description:** Cryst. ($Et_2O$)
**Melting Point:** Mp 121-122°

>>**Derivative:** 2-Methylpropylamide (*E*-)
**Synonym(s):** N-(2-Methylpropyl)-2-decenamide. **2-Decenoic acid isobutylamide**

**CAS Registry Number:** 73785-32-7

**Molecular Formula:** $C_{14}H_{27}NO$
**Molecular Weight:** 225.373
**Accurate Mass:** 225.209264
**Percentage Composition:** C 74.61%; H 12.07%; N 6.21%; O 7.10%
**Biological Source:** Trace constit. of *Cissampelos glaberrima* roots
**Physical Description:** Solid (EtOAc)
**Other Data:** Unstable at r.t. Struct. based on ms data only

>>**Derivative:** Me ester

**CAS Registry Number:** 7367-85-3

**Molecular Formula:** $C_{11}H_{20}O_2$
**Molecular Weight:** 184.278
**Accurate Mass:** 184.14633
**Percentage Composition:** C 71.70%; H 10.94%; O 17.36%
**Physical Description:** Liq.
**Boiling Point:** $Bp_{15}$ 130-132°