



9-6-89

ENVIRONMENTAL FATE & GROUND WATER BRANCH  
 PESTICIDE ENVIRONMENTAL FATE ONE LINE SUMMARY

Common Name: **NAPHTHALENE ACETIC ACID**  
 Chem. Name . 1-NAPHTHALENEACETIC ACID

Date: 09/06/89

Shaugh. # : 56002

CAS Number: 86-87-3

Type Pest. : Growth Regulator

Formulation. 3.5% ACID EQUIV. IN A POWDER BASE; 5% AQ. LIQUID, 1% AEROSOL

Uses : INDUCING ROOT FORMATION ON CUTTINGS AND TRANSPLANTS, INDUCING PINEAPPLE FLOWERING, THINNING OLIVES, THINNING APPLES, AND OTHERWISE CONTROLLING FRUIT SET.

Empir. Form: C<sub>12</sub>H<sub>10</sub>O<sub>2</sub>

VP (Torr):

Mol. Weight: 186.0

Log Kow :

Solub.(ppm). 420 @ 20 C

Henry's :

Hydrolysis (161-1)

Photolysis (161-2, -3, -4)

pH 5:[#] EXPECTED TO BE STABLE

Air :[ ]

pH 7:[\*] 266 DAYS

Soil :[ ]

pH 9:[\*] 7.5 DAYS

Water:[ ]

pH :[ ]

:[ ]

pH :[ ]

:[ ]

pH :[ ]

:[ ]

**MOBILITY STUDIES (163-1)**

Soil Partition (Kd)

Rf Factors

1.[ ]

1.[ ]

2.[ ]

2.[ ]

3.[ ]

3.[ ]

4.[ ]

4.[ ]

5.[ ]

5.[ ]

6.[ ]

6.[ ]

**METABOLISM STUDIES (162-1,2,3,4)**

Aerobic Soil (162-1)

Anaerobic Soil (162-2)

1.[ ]

1.[ ]

2.[ ]

2.[ ]

3.[ ]

3.[ ]

4.[ ]

4.[ ]

5.[ ]

5.[ ]

6.[ ]

6.[ ]

7.[ ]

7.[ ]

Aerobic Aquatic (162-4)

Anaerobic Aquatic (162-3)

1.[ ]

1.[ ]

2.[ ]

2.[ ]

3.[ ]

3.[ ]

4.[ ]

4.[ ]

[\*] - Acceptable Study. [#] = Supplemental Study

Common Name: **NAPHTHALENE ACETIC ACID**

Date: 09/06/89

**VOLATILITY STUDIES (163-2,3)**

- Laboratory.
- Field:

**DISSIPATION STUDIES (164-1,2,3,5)**

Terrestrial Field (164-1)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Aquatic (164-2)

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

Forestry (164-3)

- 1.
- 2.

Other (164-5)

- 1. [#] INDUCED MUTATIONS IN YEAST AT 500 PPM.
- 2. [#] INHIBITS STAPH. AUREUS AT CONCS. >50 PPM.

**ACCUMULATION STUDIES (165-1,2,3,4,5)**

Confined Rotational Crops (165-1)

- 1.
- 2.

Field Rotational Crops (165-2)

- 1.
- 2.

Irrigated Crops (165-3)

- 1.
- 2.

Fish (165-4)

- 1.
- 2.

Non-Target Organisms (165-5)

- 1.
- 2.

Common Name: **NAPHTHALENE ACETIC ACID**

Date: 09/06/89

**GROUND WATER STUDIES (158.75)**

1. [ ]
2. [ ]
3. [ ]

**DEGRADATION PRODUCTS**

1. 5-HYDROXY NAPHTHALENEACETIC ACID
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

**COMMENTS**

References:  
Writer