

**SAMPLING**  
**HIGH VAPOR PRESSURE**  
**COMPOUNDS**

**3M 005349**

## High Vapor Compounds

| Compound                     | Vapor Pressure<br>(mm) | Boiling Point<br>( C ) | PEL<br>(ppm) |
|------------------------------|------------------------|------------------------|--------------|
| * Vinyl Chloride             |                        | -14                    | 1            |
| Butadiene                    | 910                    | 4                      | 1000         |
| Ethyl Ether                  | 442                    | 35                     | 400          |
| * Pentane                    | 426                    | 36                     | 1000         |
| Ethyl Bromide                | 375                    | 40                     | 200          |
| * Dichloromethane            | 350                    | 40                     | 500          |
| Allyl Chloride               | 295                    | 44                     | 1            |
| * Acetone                    | 226                    | 56                     | 1000         |
| * Trans 1,2 Dichloroethylene | 265                    | 48                     | 50           |
| 1,1 Dichloroethane           | 182                    | 57                     | 100          |
| * Cis 1,2 Dichloroethylene   | 180                    | 60                     | 50           |
| * Methyl Acetate             | 173                    | 58                     | 200          |
| * Chloroform                 | 160                    | 61                     | 50           |
| * Hexane                     | 124                    | 69                     | 500          |
| Isopropyl Ether              | 119                    | 69                     | 500          |
| * Bromochloromethane         | 117                    | 68                     | 200          |
| * Methyl chloroform          | 100                    | 74                     | 350          |

\*Compounds sampled from various concentration to validate sampling rate and capacity values.

| Compound        | RH<br>(%) | Conc.<br>(ppm) | Page  |
|-----------------|-----------|----------------|-------|
| Vinyl Chloride  | 60        | .39            | IV-3  |
|                 |           | 1.15           | 4     |
|                 |           | 4.60           | 5     |
| Pentane         | 50        | All            | IV-6  |
|                 |           | 15             | 7     |
|                 |           | 77             | 8     |
|                 |           | 573            | 9     |
|                 |           | 4030           | 10    |
| Dichloromethane | 85        | 127            | IV-11 |
|                 | 50        | All            | IV-12 |
|                 |           | 59             | 13    |
|                 |           | 129            | 14    |
|                 |           | 764            | 15    |
| Acetone         | 85        | All            | IV-16 |
|                 | 50        | 58             | 17    |
|                 |           | 482            | 18    |
|                 |           | All            | IV-19 |
|                 |           | 87             | 20    |
| Methyl Acetate  | 50        | 644            | 21    |
|                 |           | 1170           | 22    |
|                 |           | 3770           | 23    |
|                 |           | All            | IV-24 |
|                 | 85        | 141            | 25    |
| Methyl Acetate  | 50        | 545            | 25    |
|                 |           | 23             | IV-26 |
|                 |           | 75             | 27    |
|                 |           | 200            | 28    |
|                 |           | 488            | 29    |
| Methyl Acetate  | 85        | 20             | 30    |
|                 |           | 200            | 31    |

IV-3

# VINYL CHLORIDE

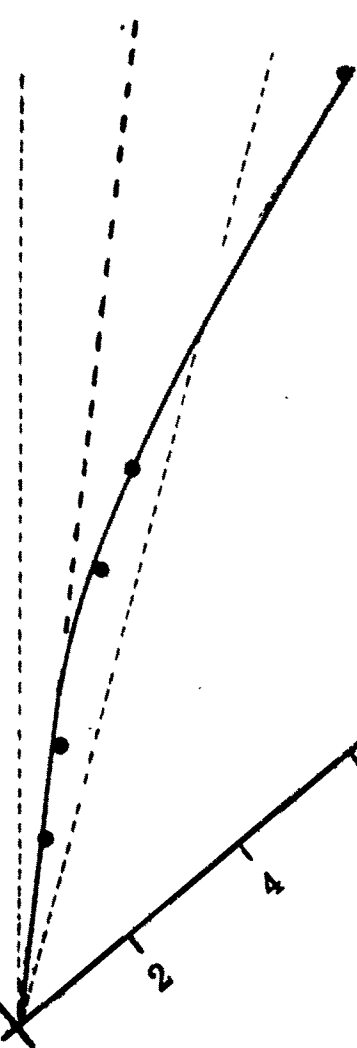
RH - 60%

.39ppm

WEIGHT (g)

SAMPLING TIME (hrs)

3M 005352



IV-4

# VINYL CHLORIDE

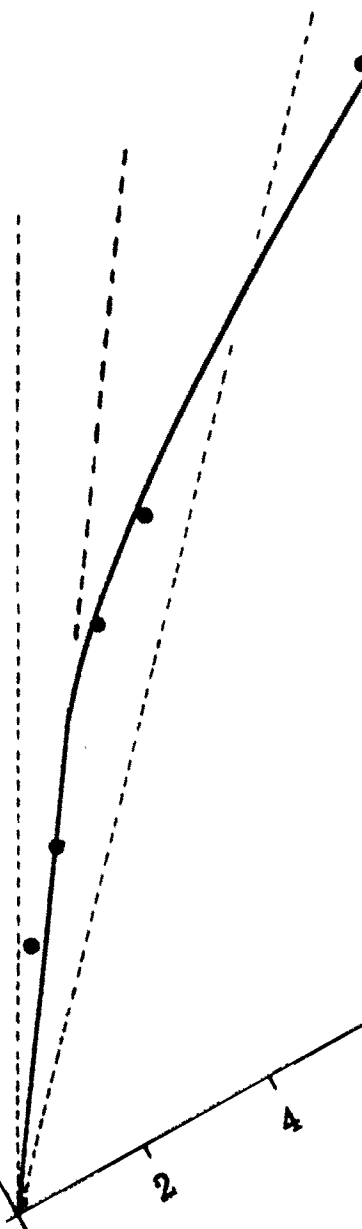
RH - 60%

1.15 ppm

WEIGHT (g)

SAMPLING TIME (hrs)

3M 005353



IV-5

# VINYL CHLORIDE

RH - 60%

4.60 ppm

WEIGHT (g)

100

200

300

SAMPLING TIME (hrs)

2

4

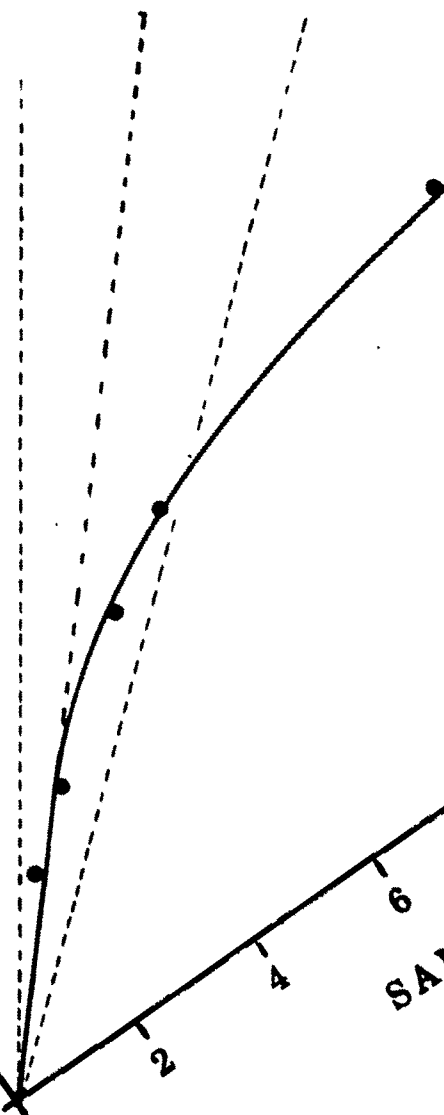
6

8

10

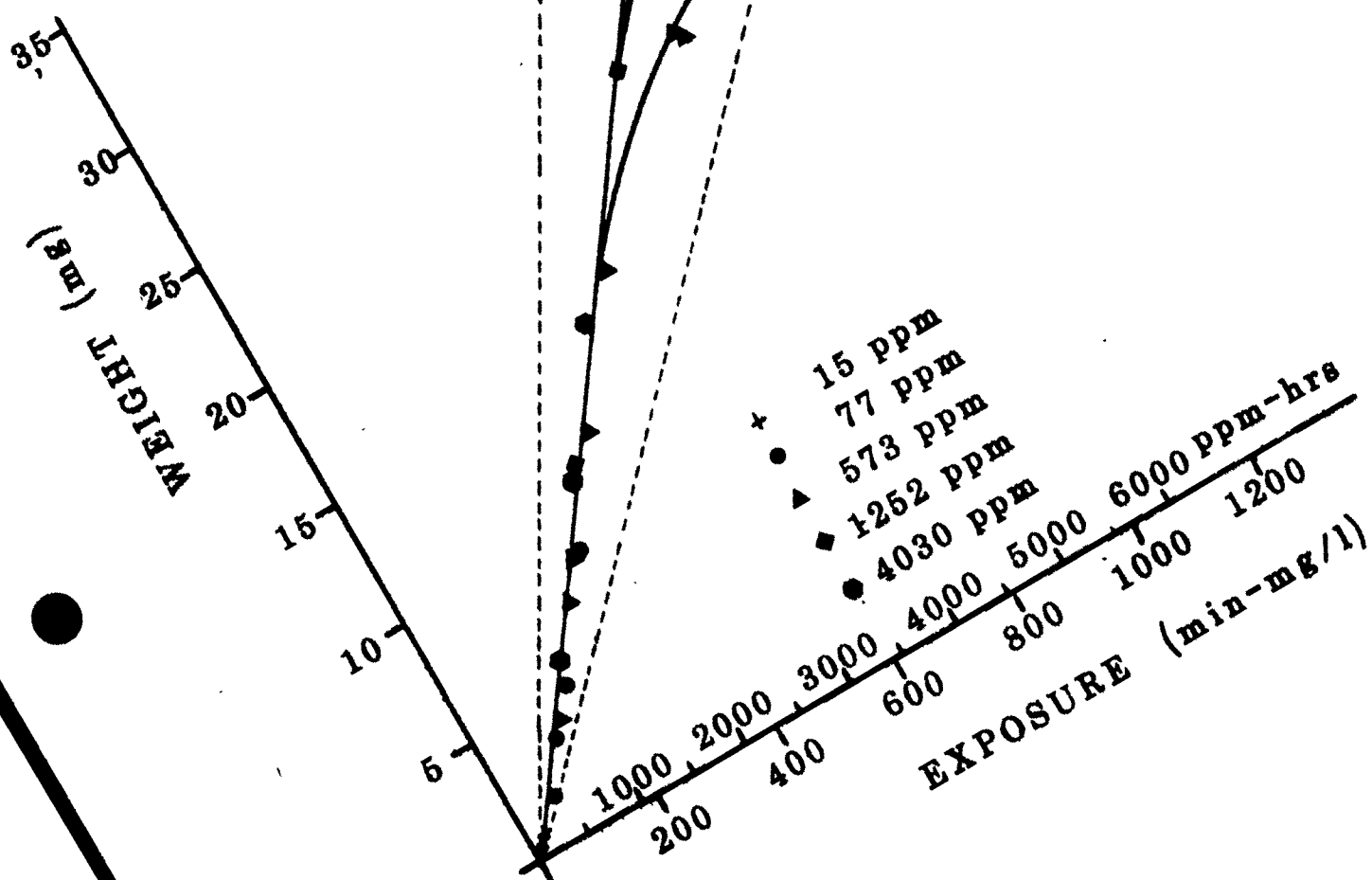
12

3M 005354



IV-6

# PENTANE

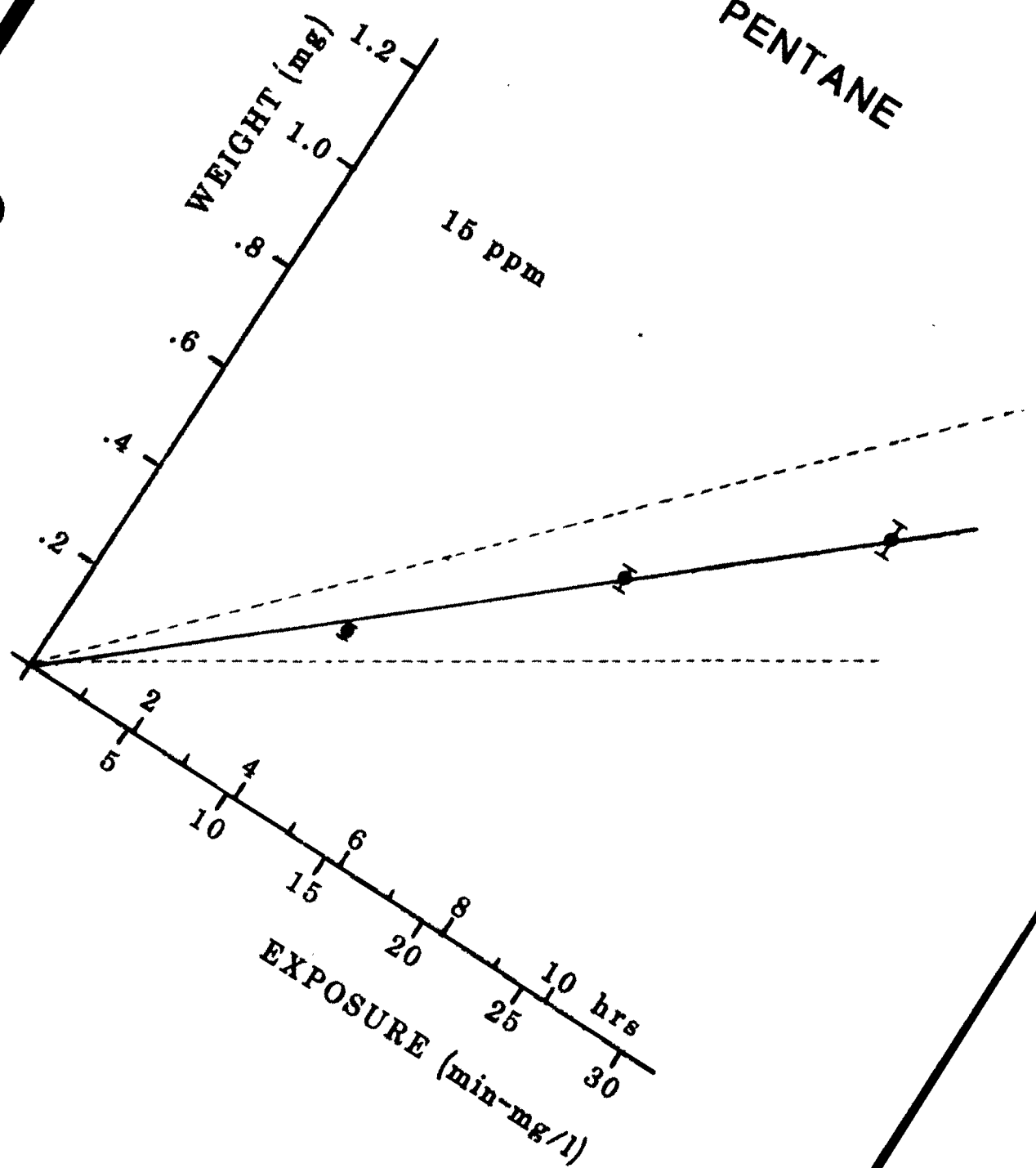


3M 005355

# PENTANE

IV-7

15 ppm



3M 005356

IV-8

PENTANE

77 ppm

WEIGHT (mg)

12  
10  
8  
6  
4  
2

EXPOSURE (min-mg/l)

100 10 15 200 20 hrs 300

3M 005357



IV-9

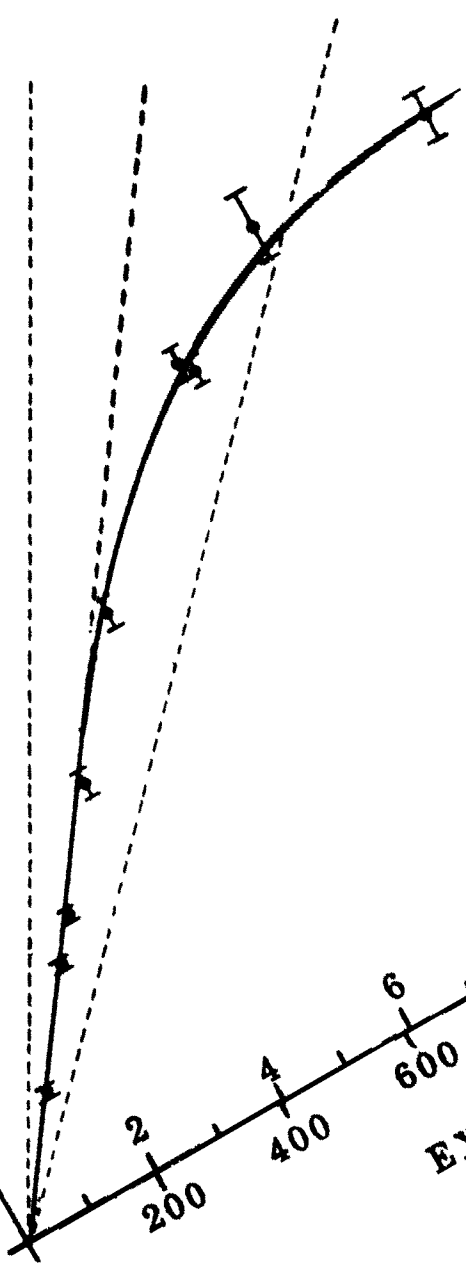
# PENTANE

573ppm

WEIGHT (mg)

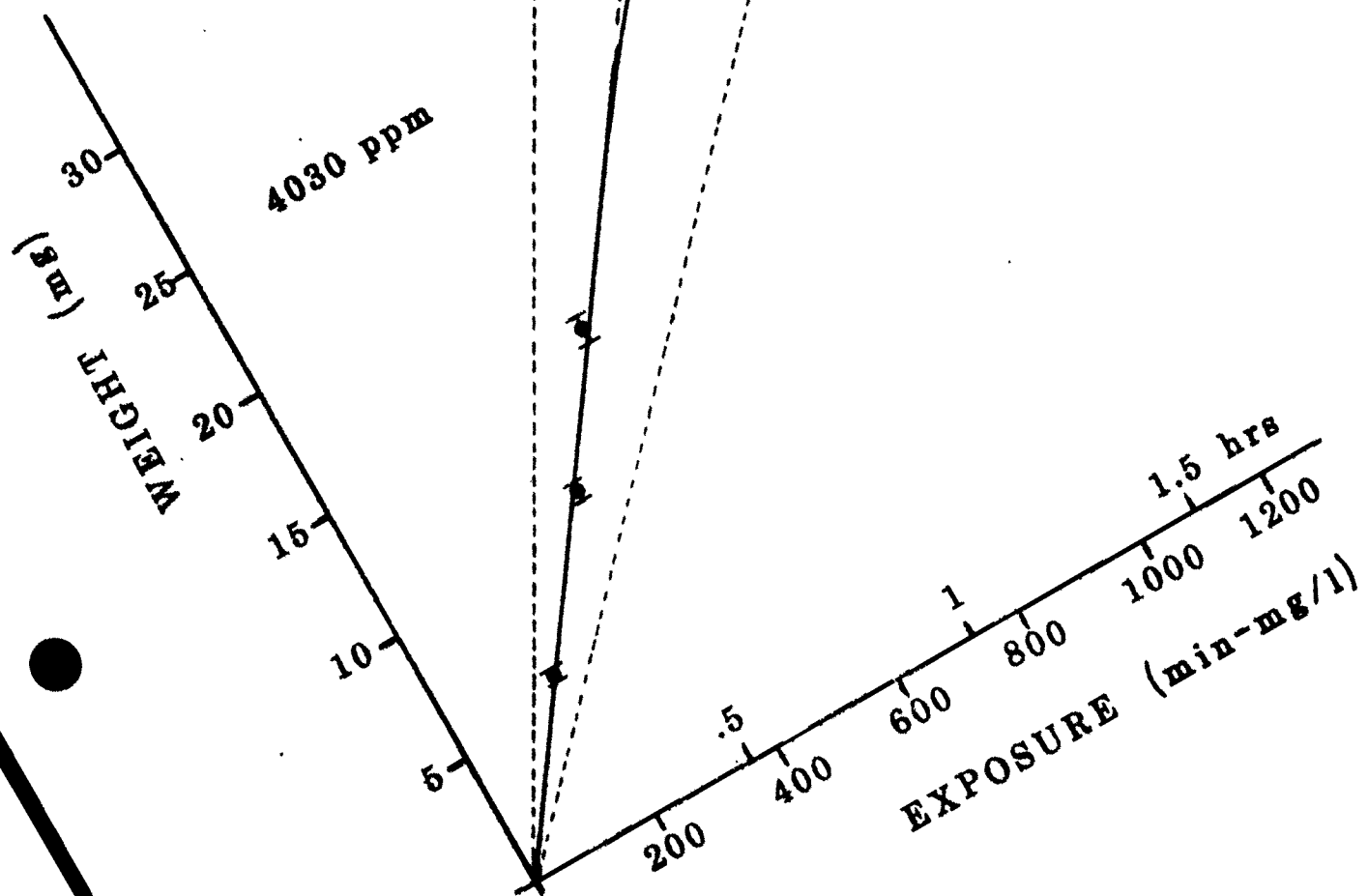
EXPOSURE (min-mg/l)

3M 005358



IV-10

# PENTANE



3M 005359

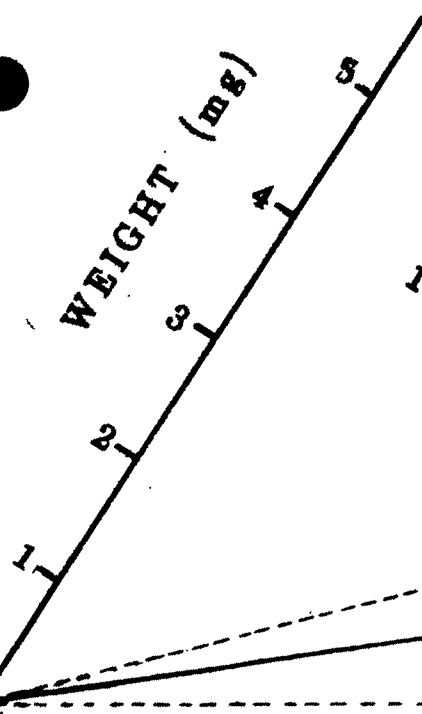
IV-11

PENTANE

RH 85%

127 ppm

WEIGHT (mg)

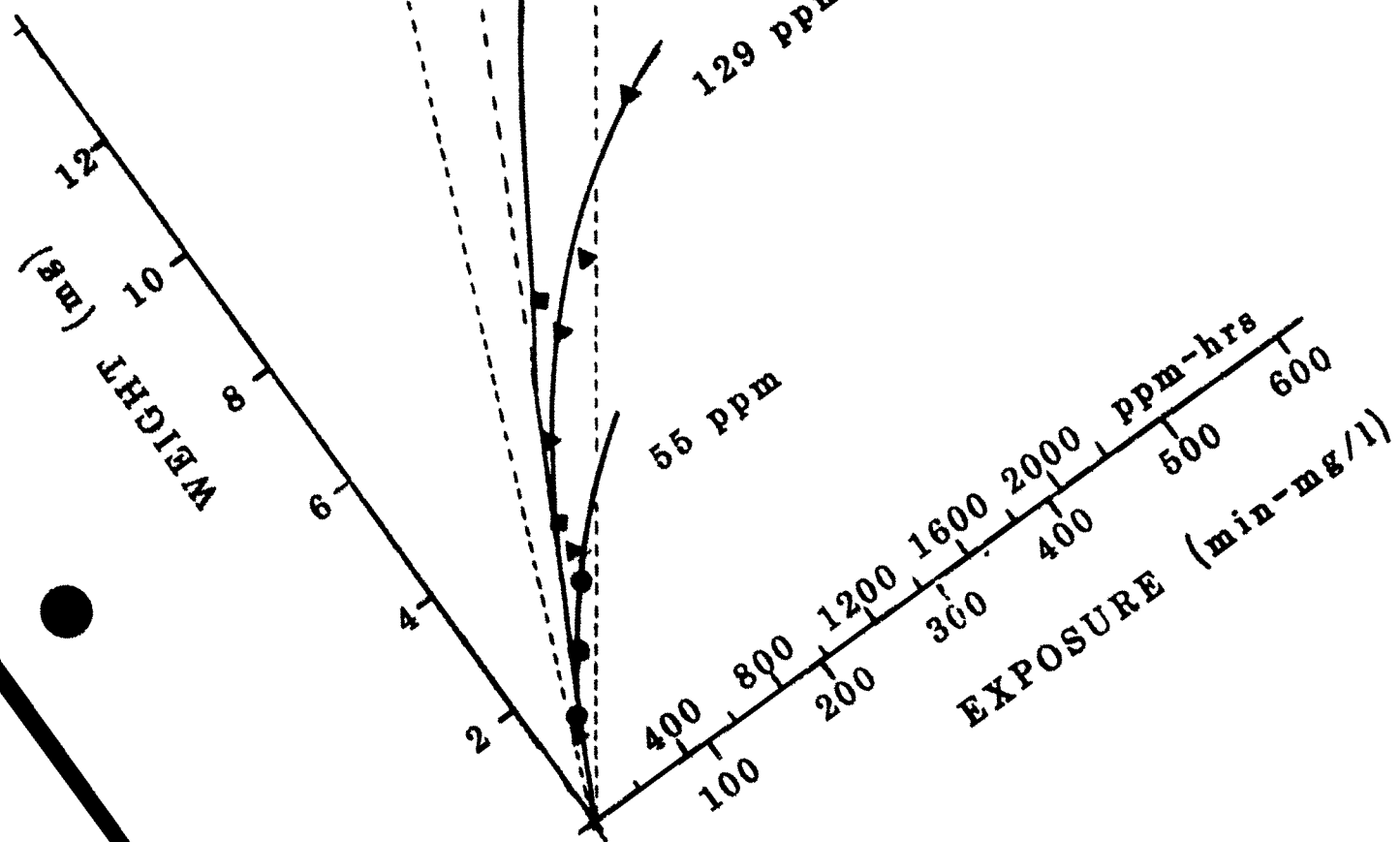


EXPOSURE (min-mg/l)

3M 005360

IV-12

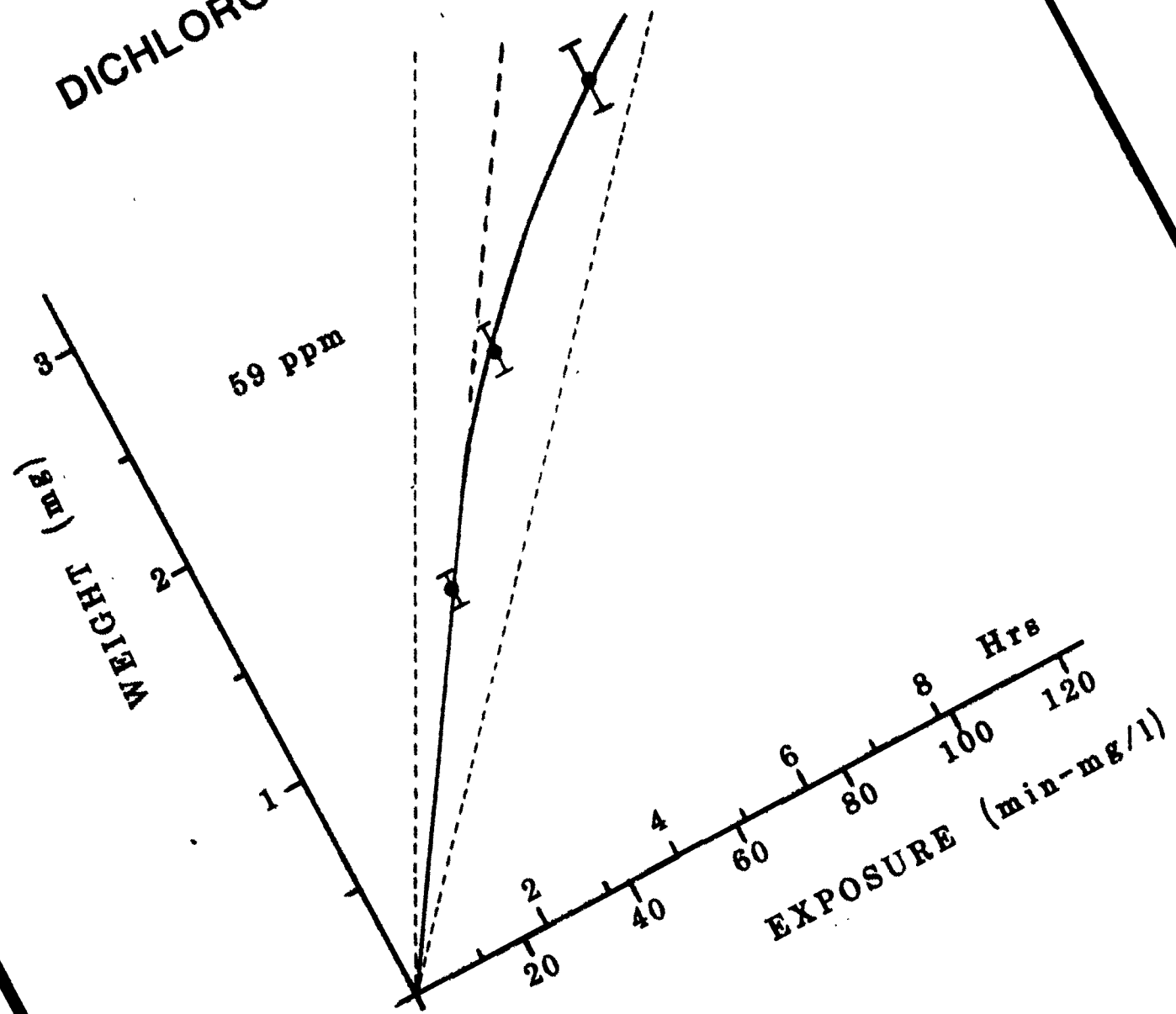
# DICHLOROMETHANE



3M 005361

IV-13

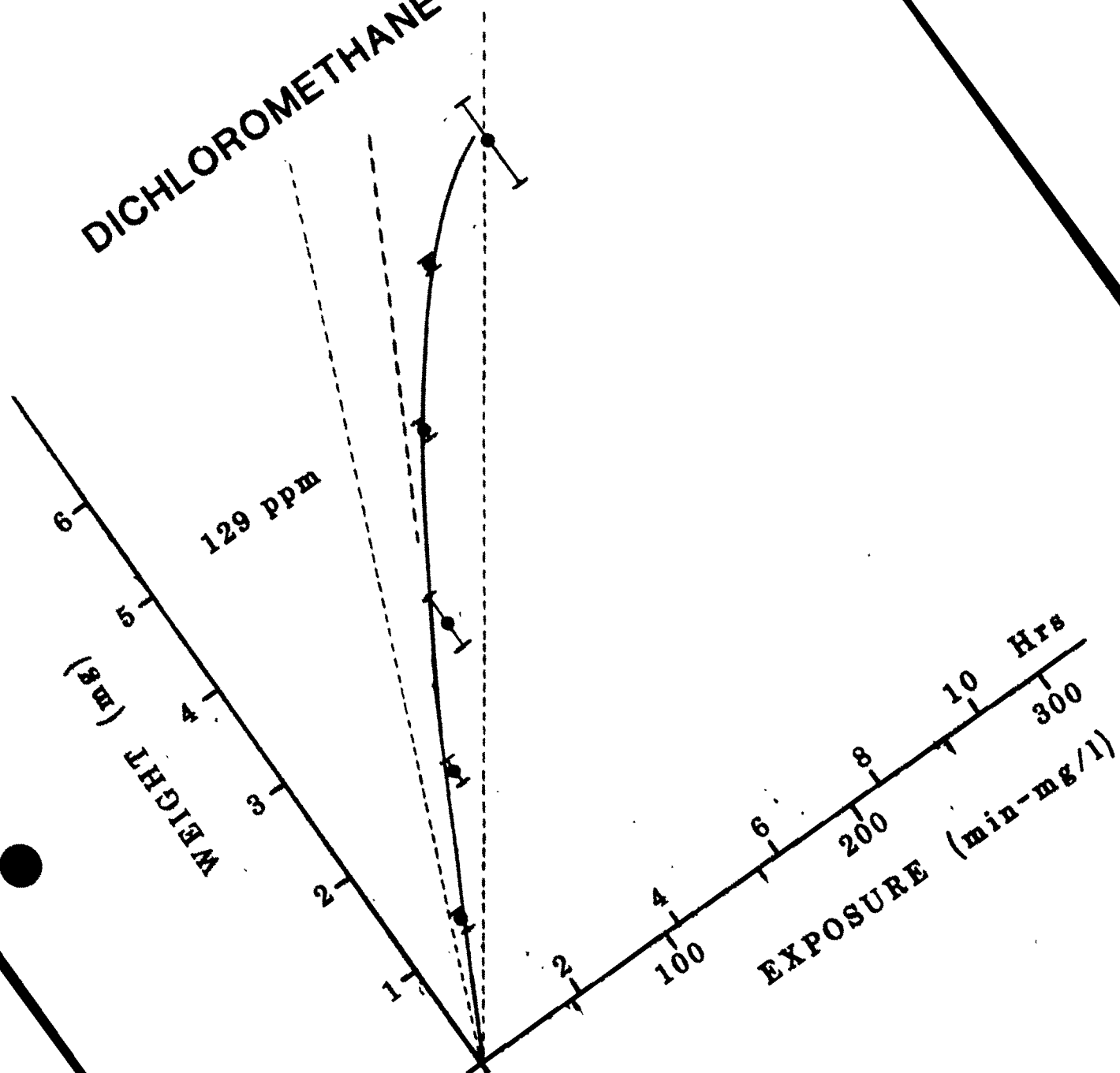
# DICHLOROMETHANE



3M 005362

IV-14

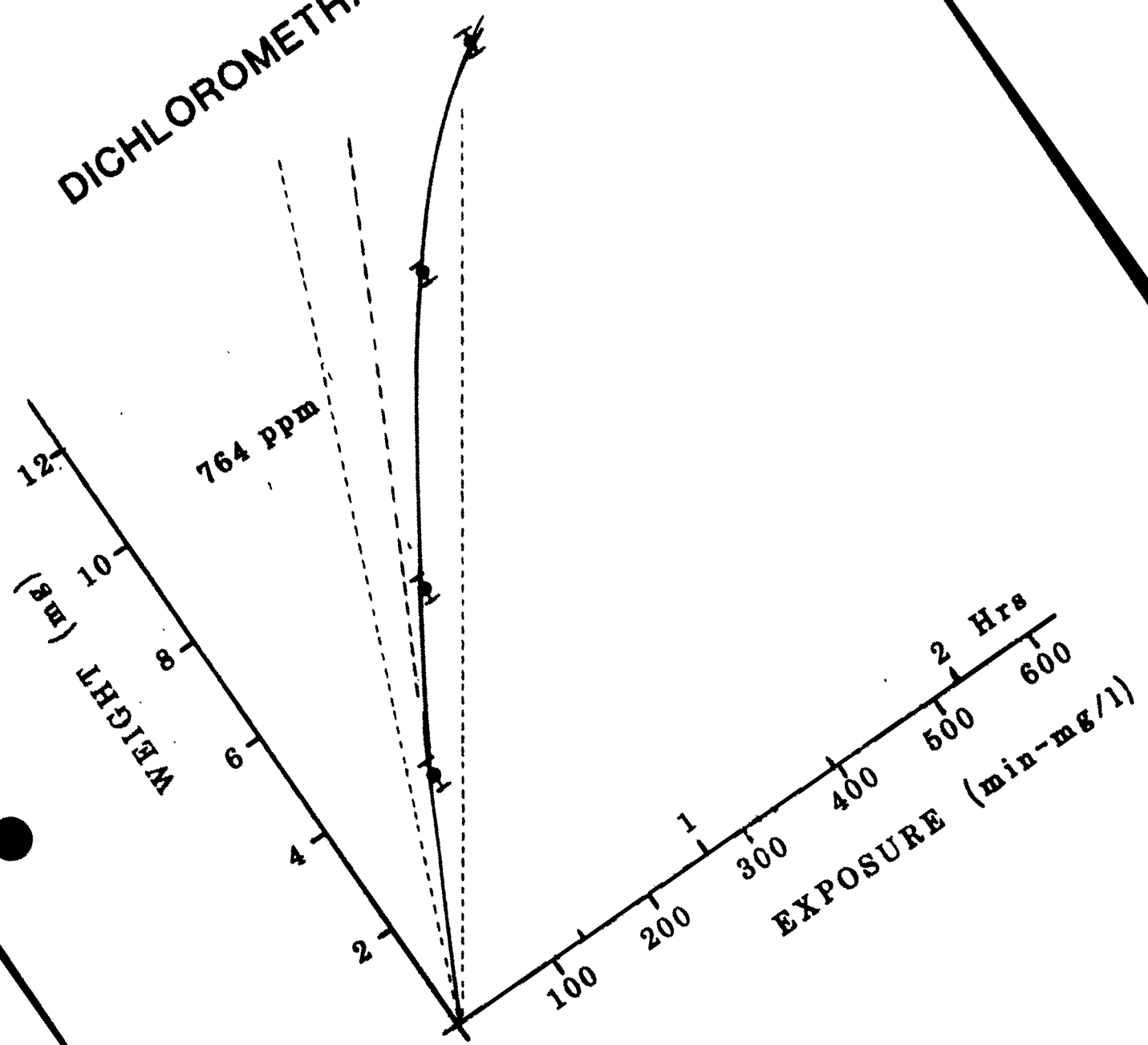
# DICHLOROMETHANE



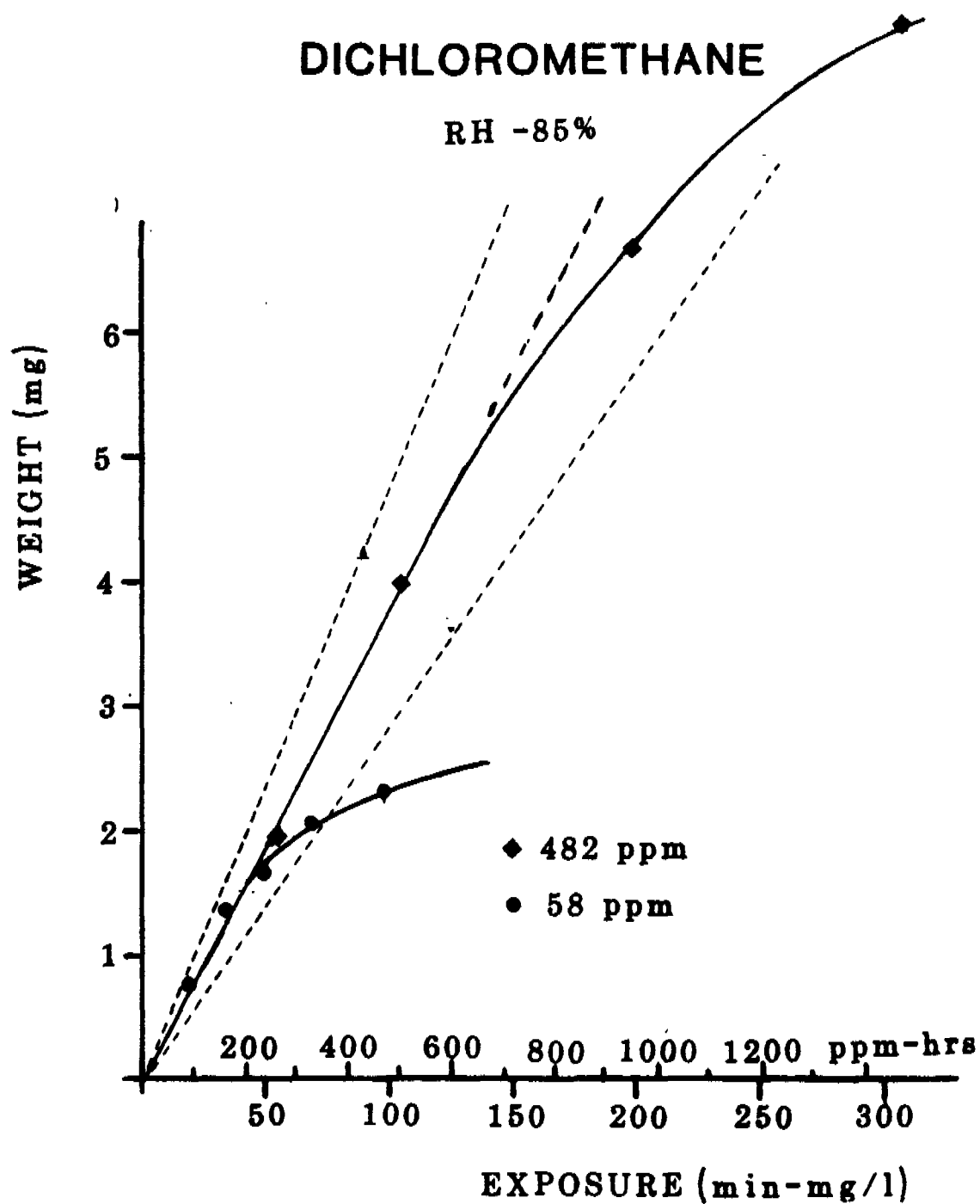
3M 005363

IV-15

# DICHLOROMETHANE

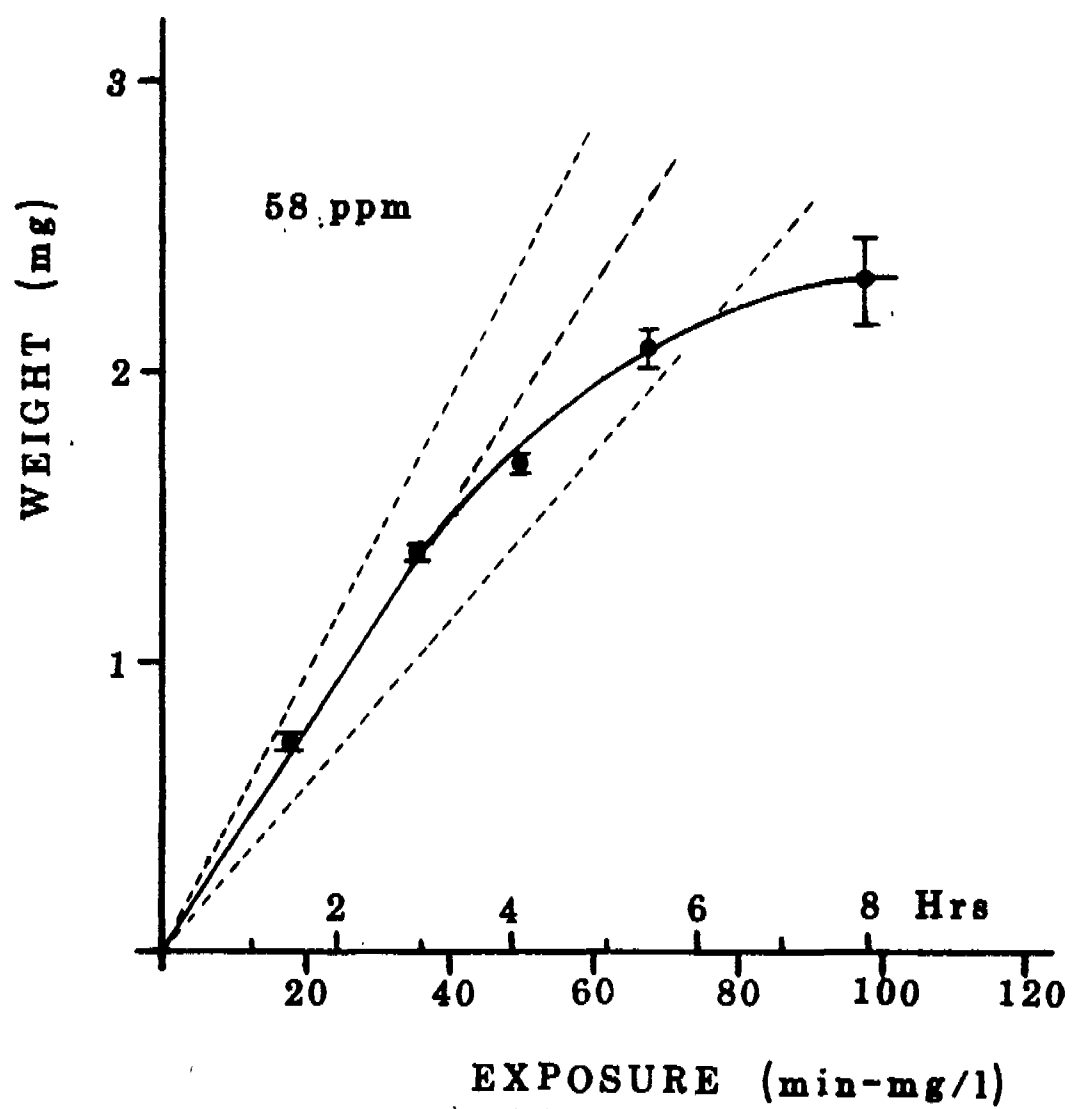


3M 005364



# DICHLOROMETHANE

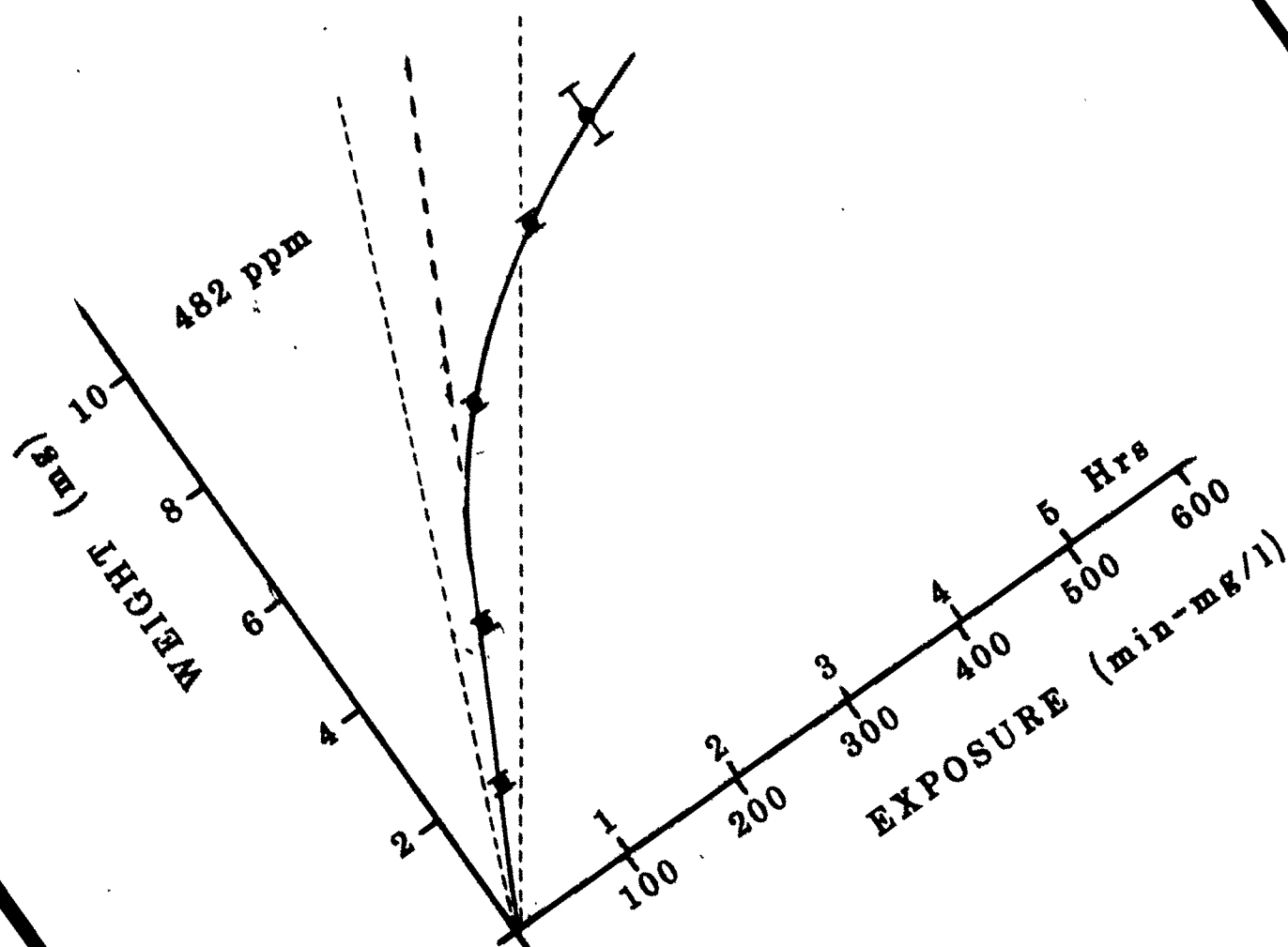
RH - 85%



IV-18

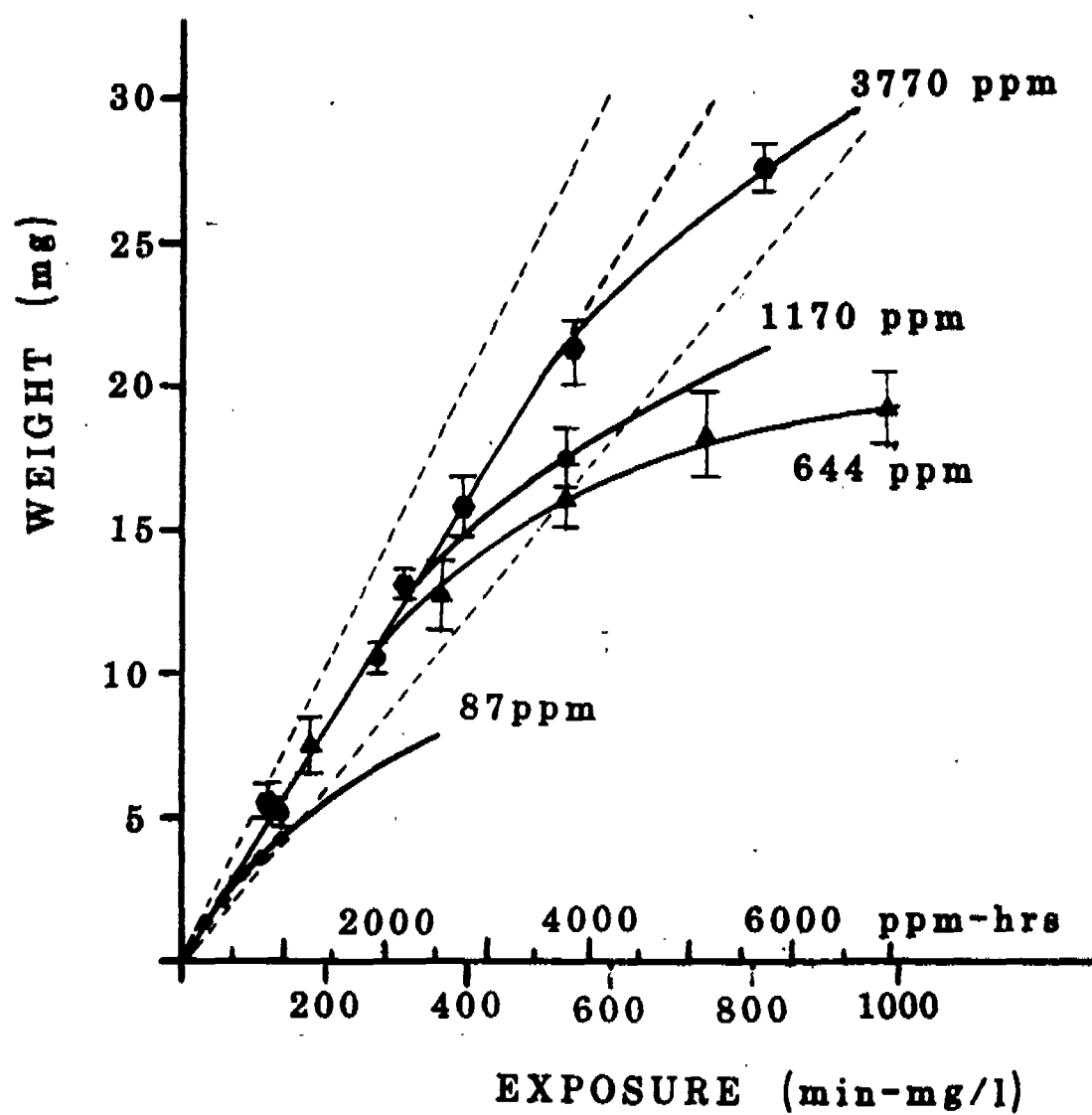
# DICHLOROMETHANE

RH - 85%



3M 005367

## ACETONE



3M 005368

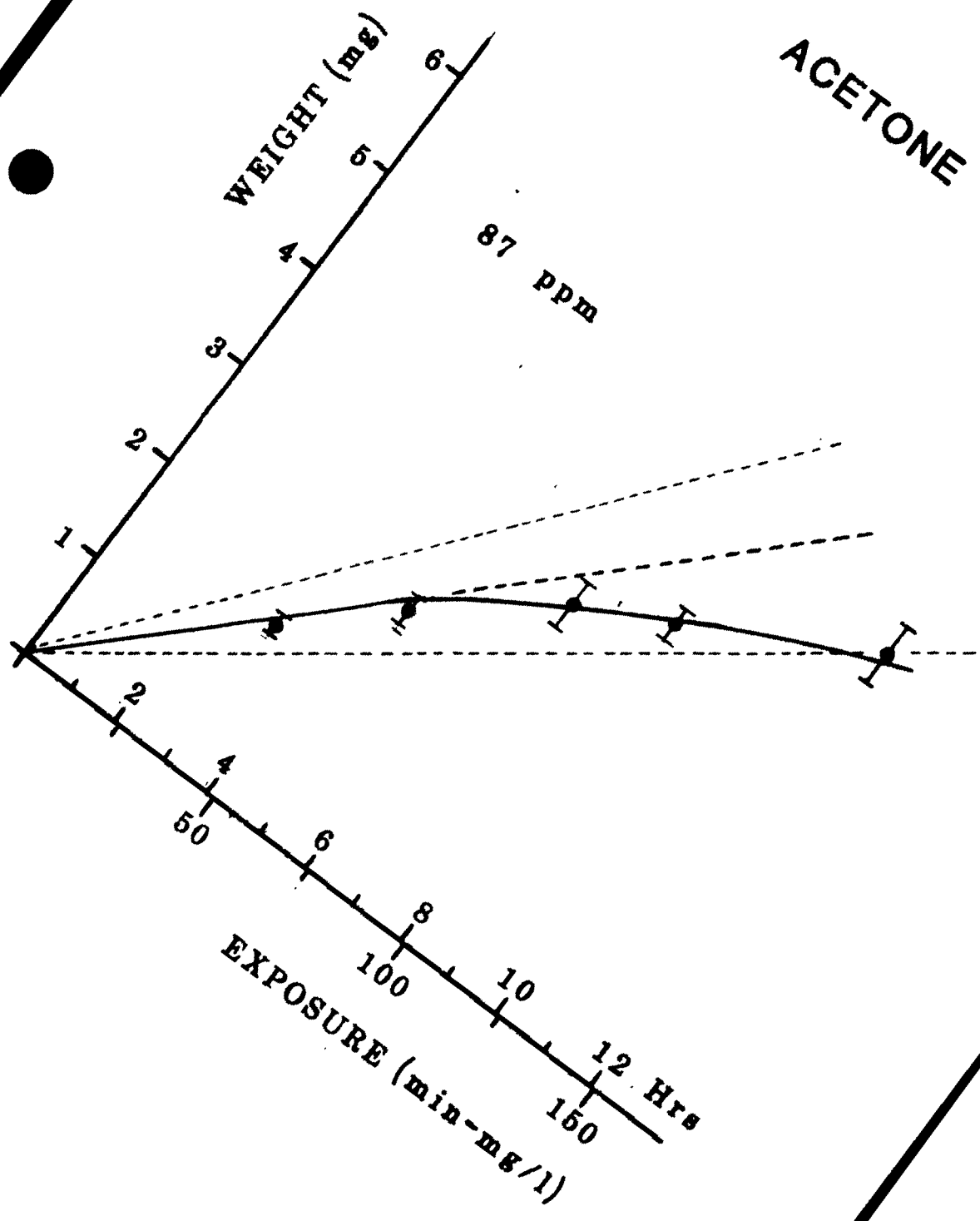
ACETONE

IV-20

87 ppm

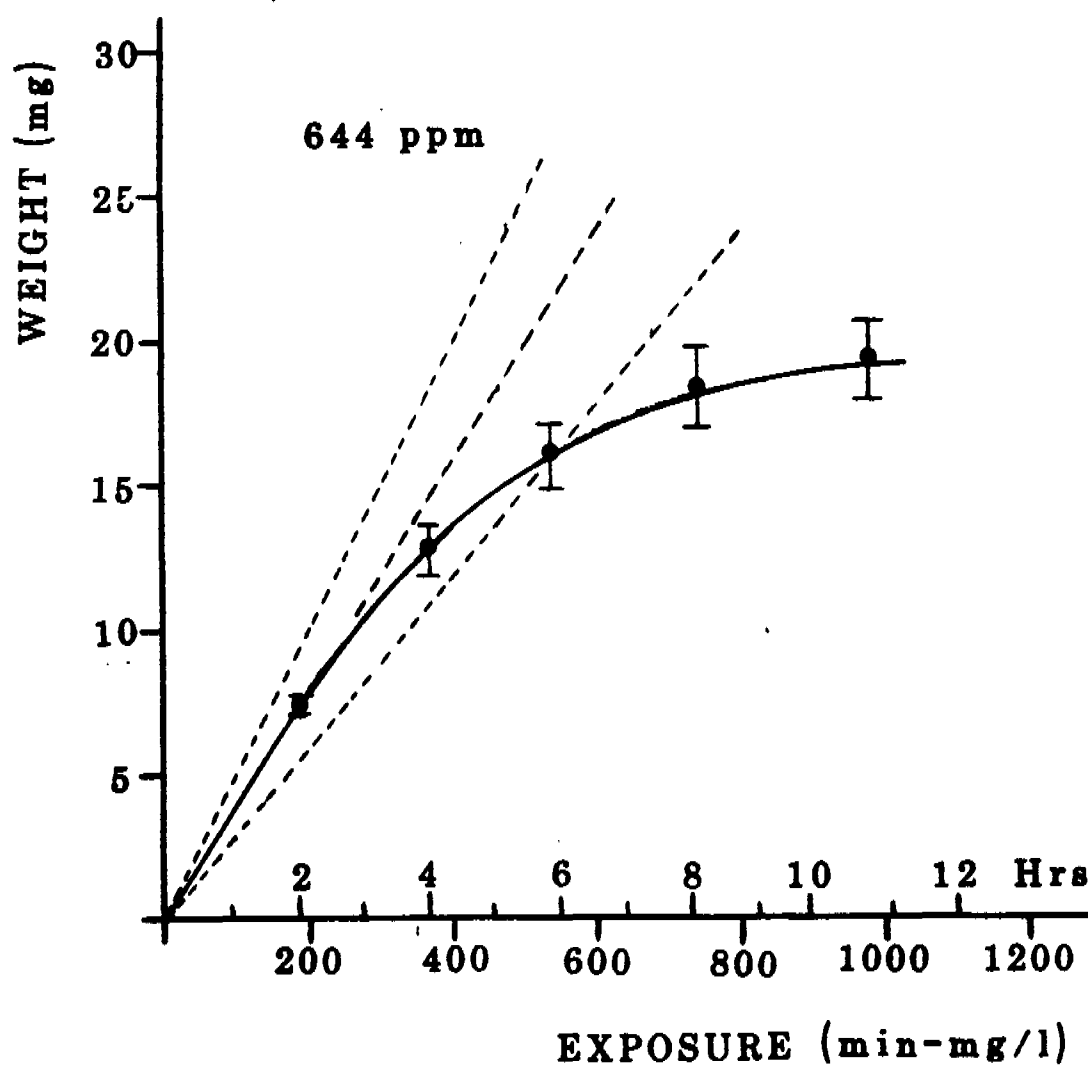
WEIGHT (mg)

EXPOSURE (min-mg/l)

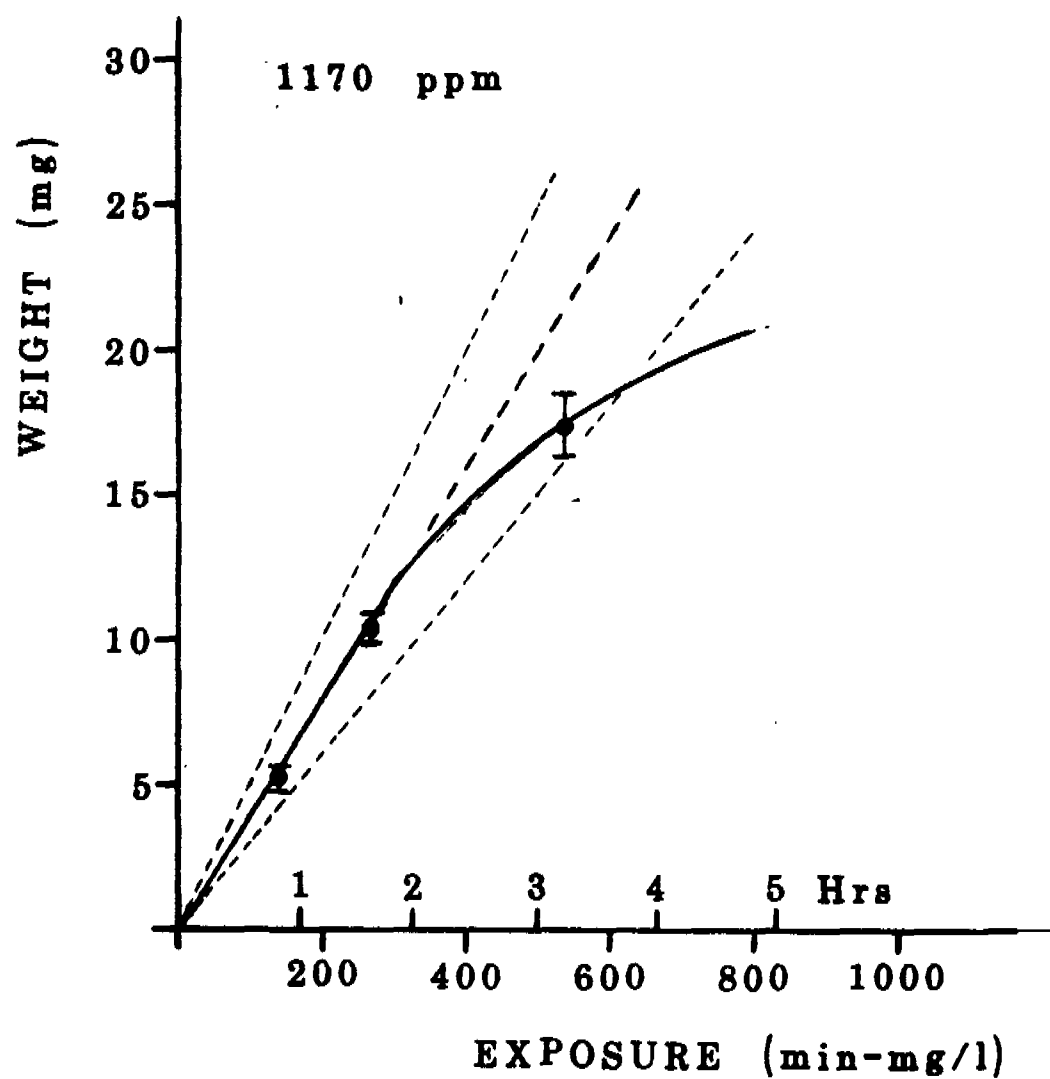


3M 005369

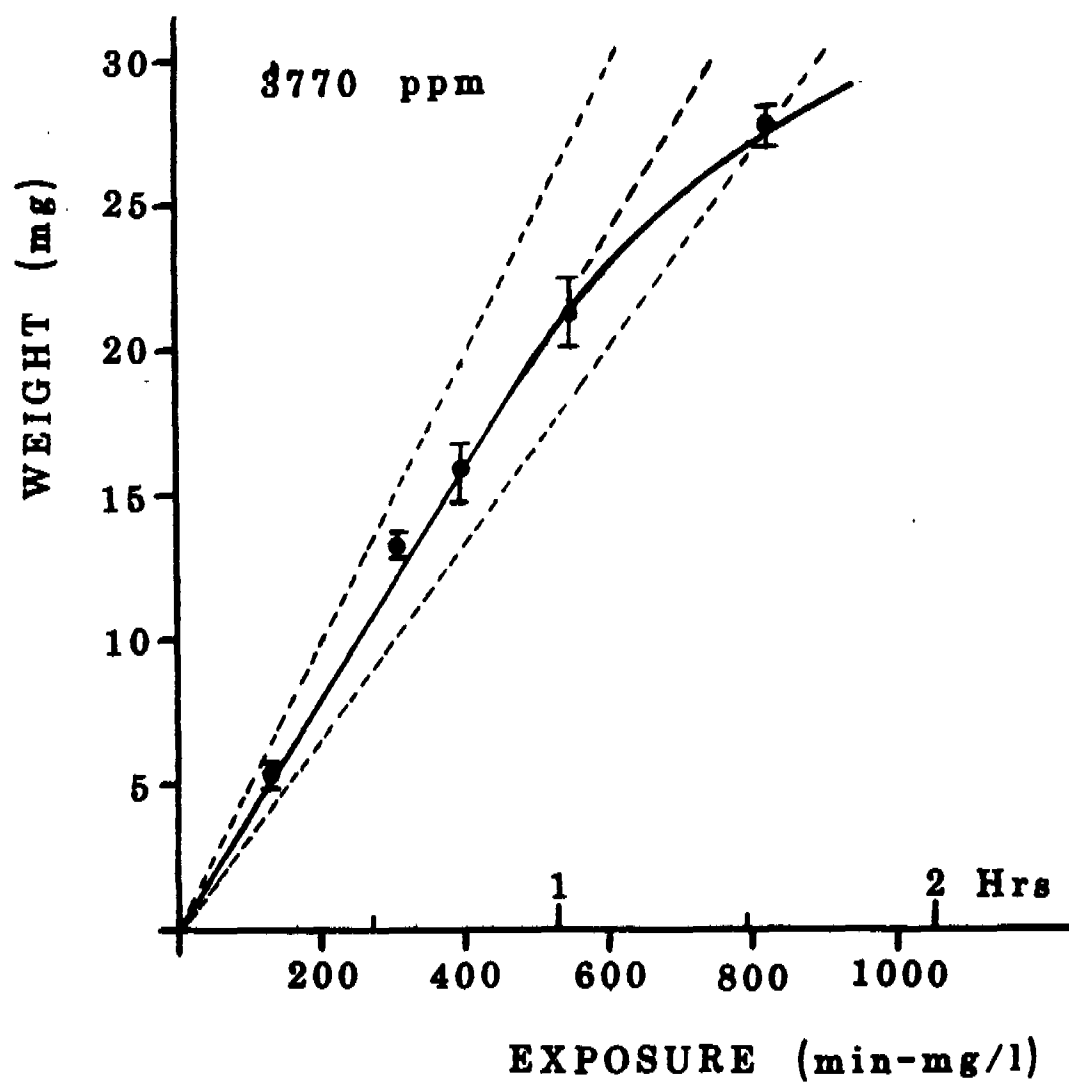
## ACETONE



## ACETONE



## ACETONE



IV-24

ACETONE  
RH - 85%

141 ppm

WEIGHT (mg)

1.0

2.0

3.0

1  
20

2  
40

3  
60

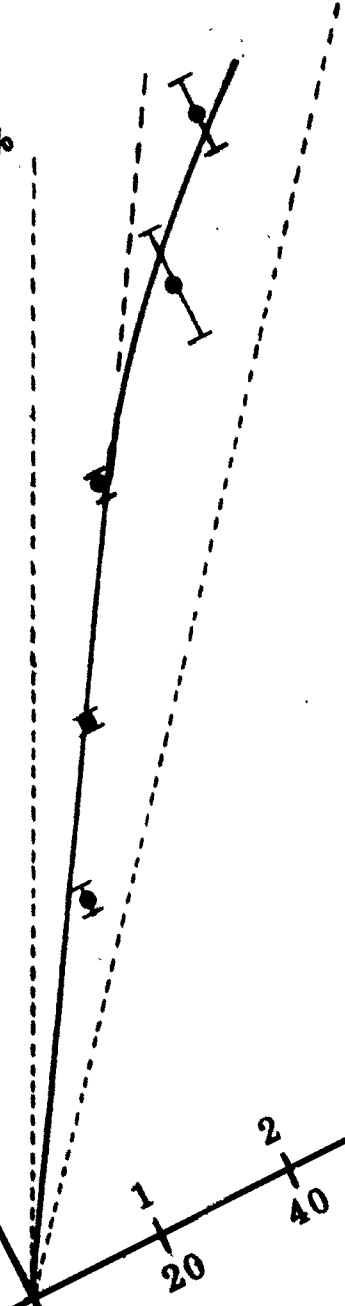
4  
80

5  
100

6 Hrs  
120

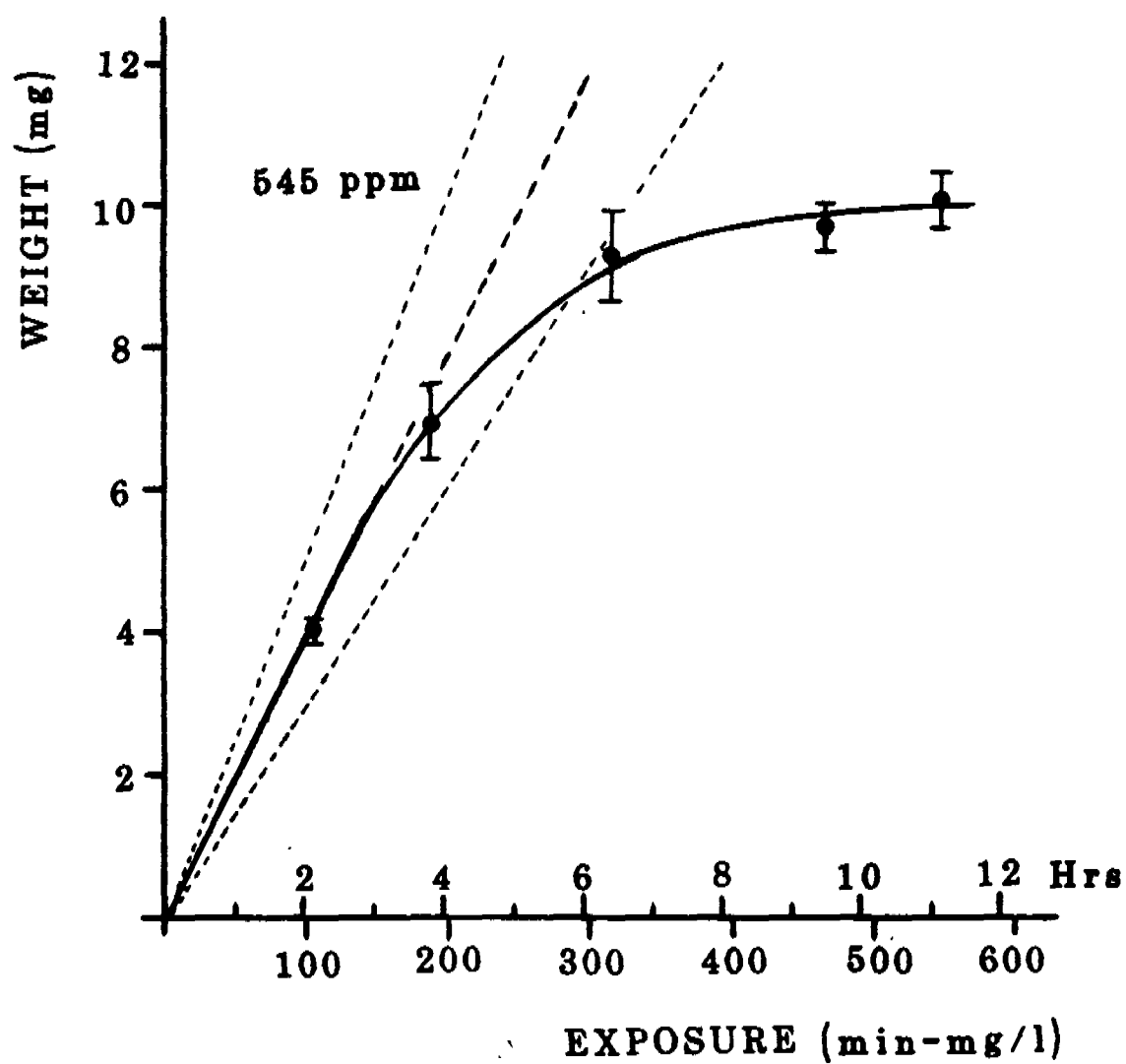
EXPOSURE (min-mg/l)

3M 005373



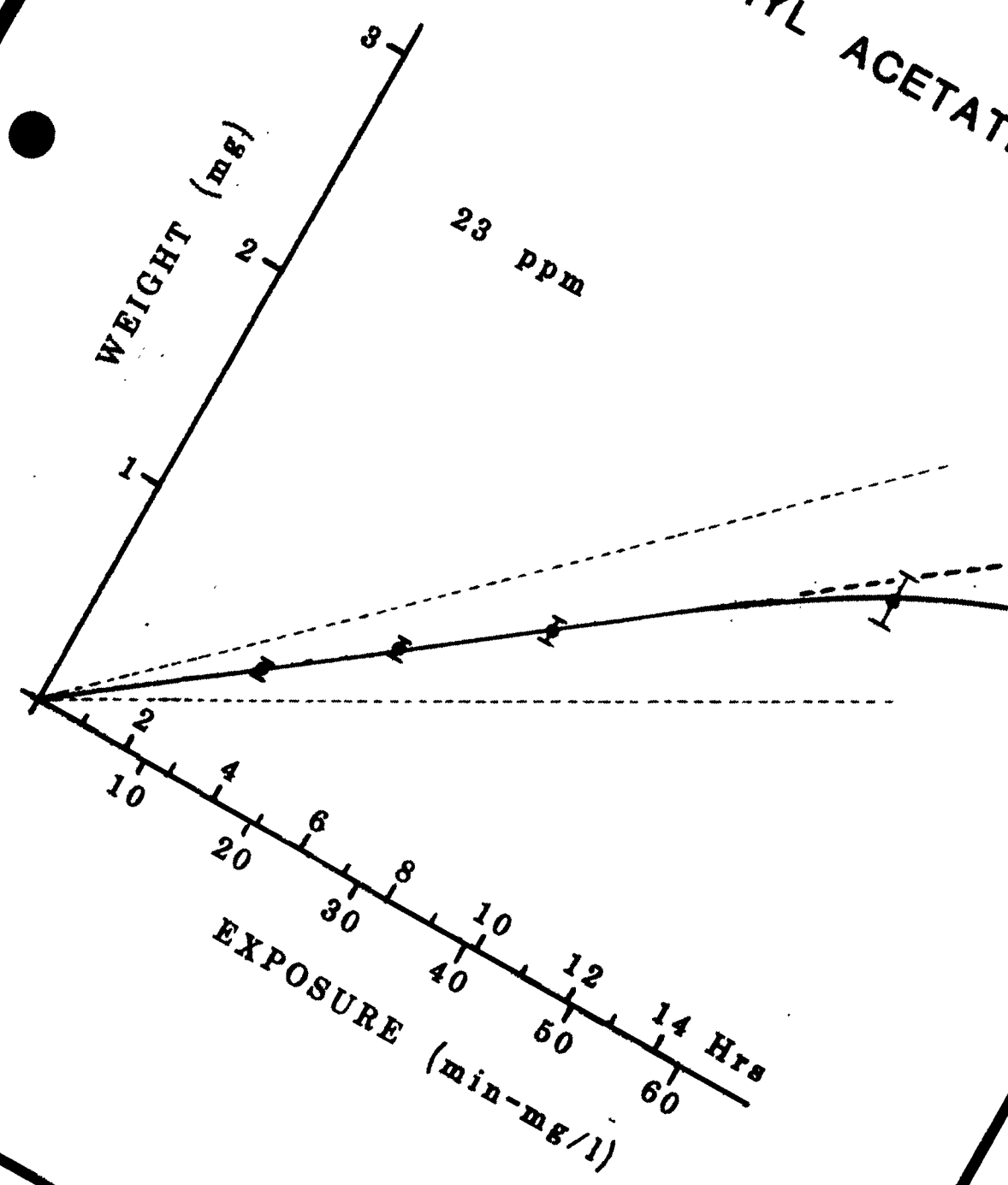
## ACETONE

RH - 85%



# METHYL ACETATE

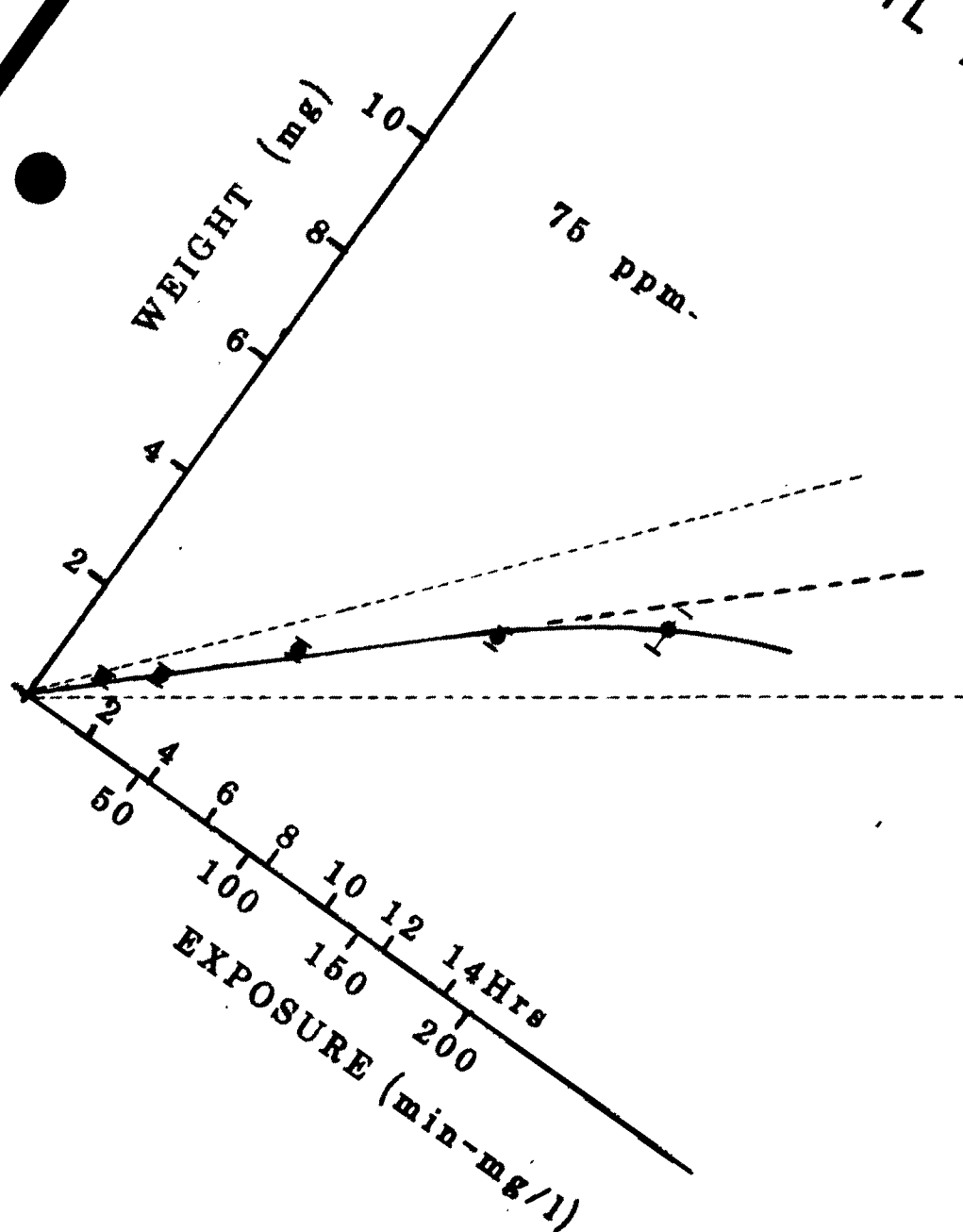
23 ppm



# METHYL ACETATE

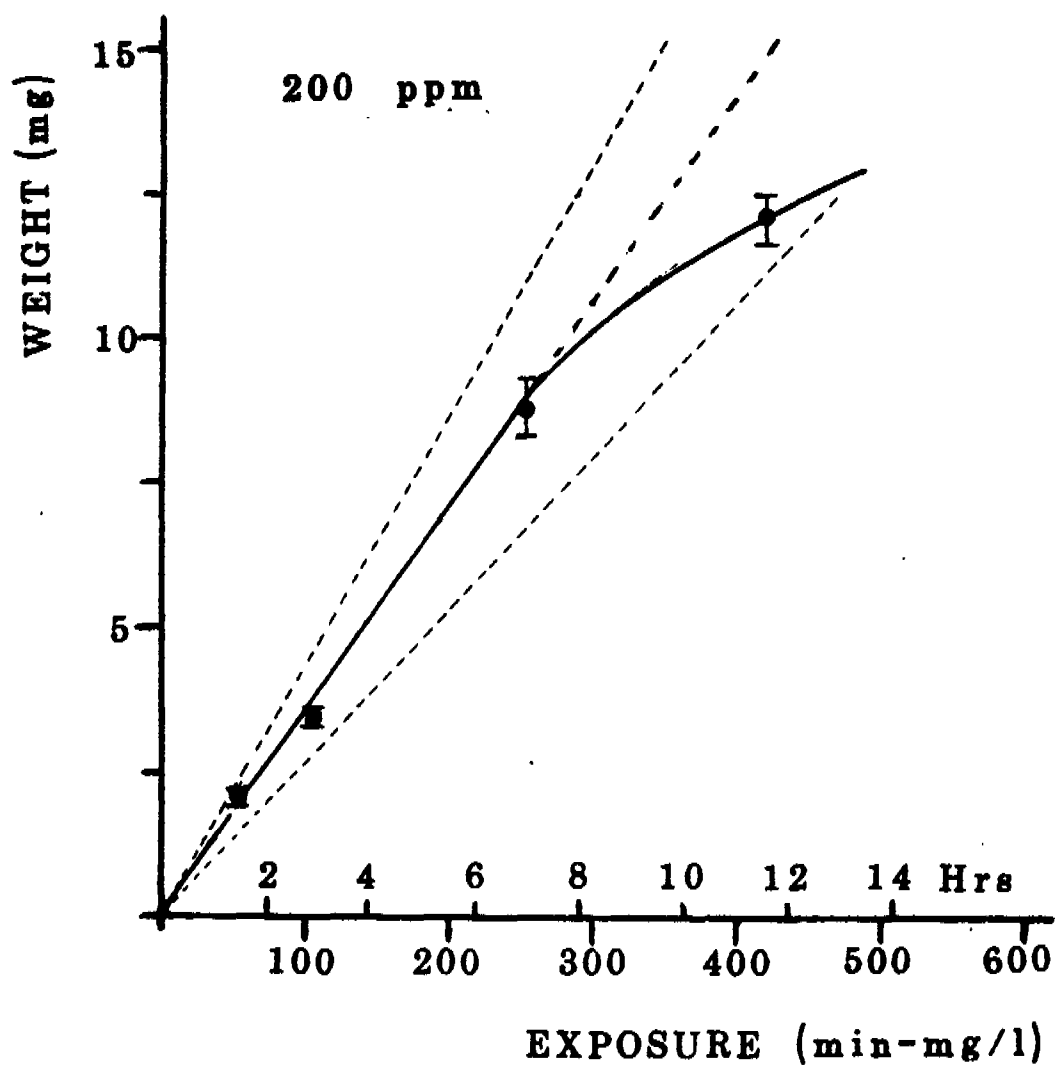
IV-27

75 ppm.



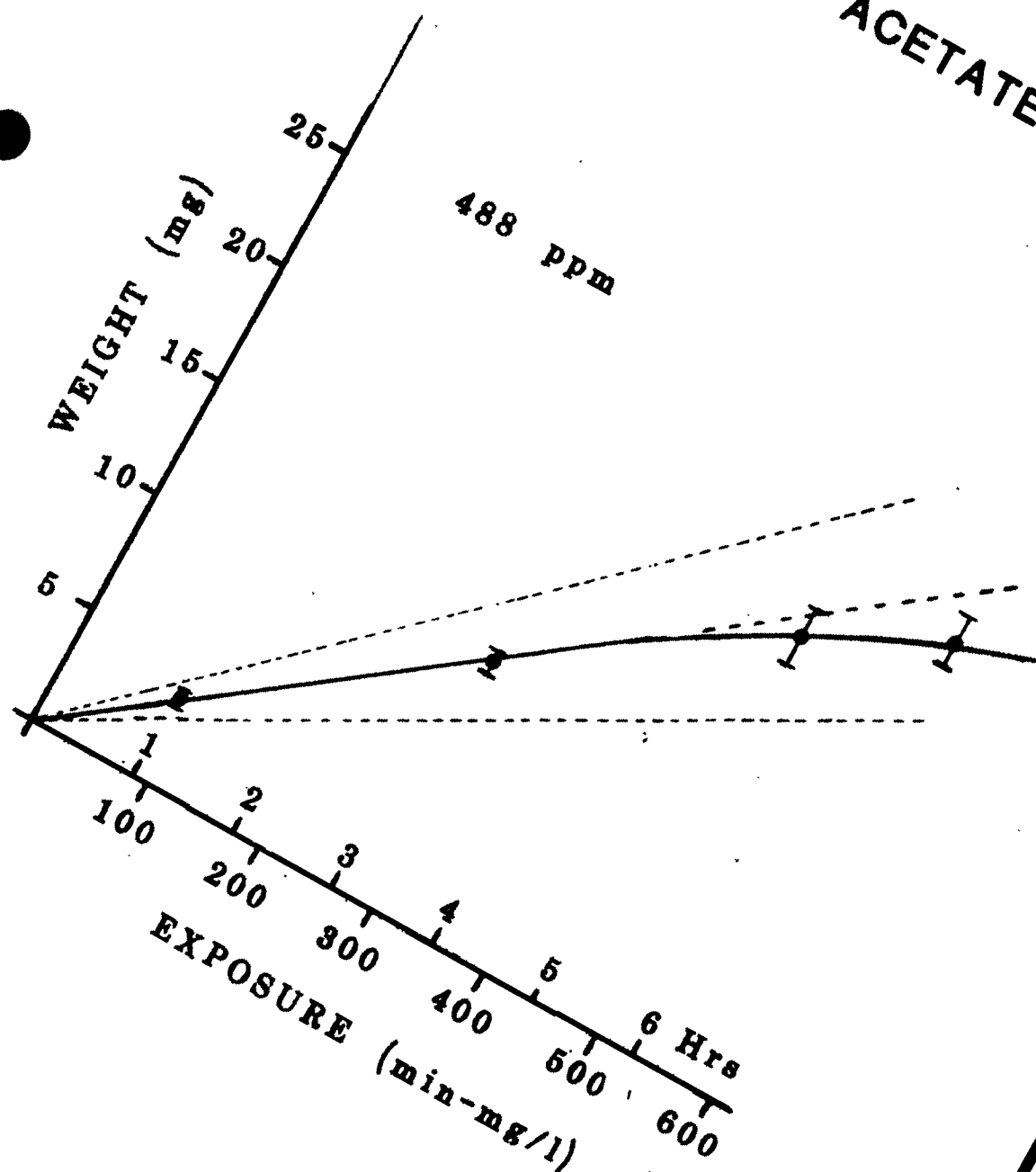
3M 005376

## METHYL ACETATE



# METHYL ACETATE

IV-29



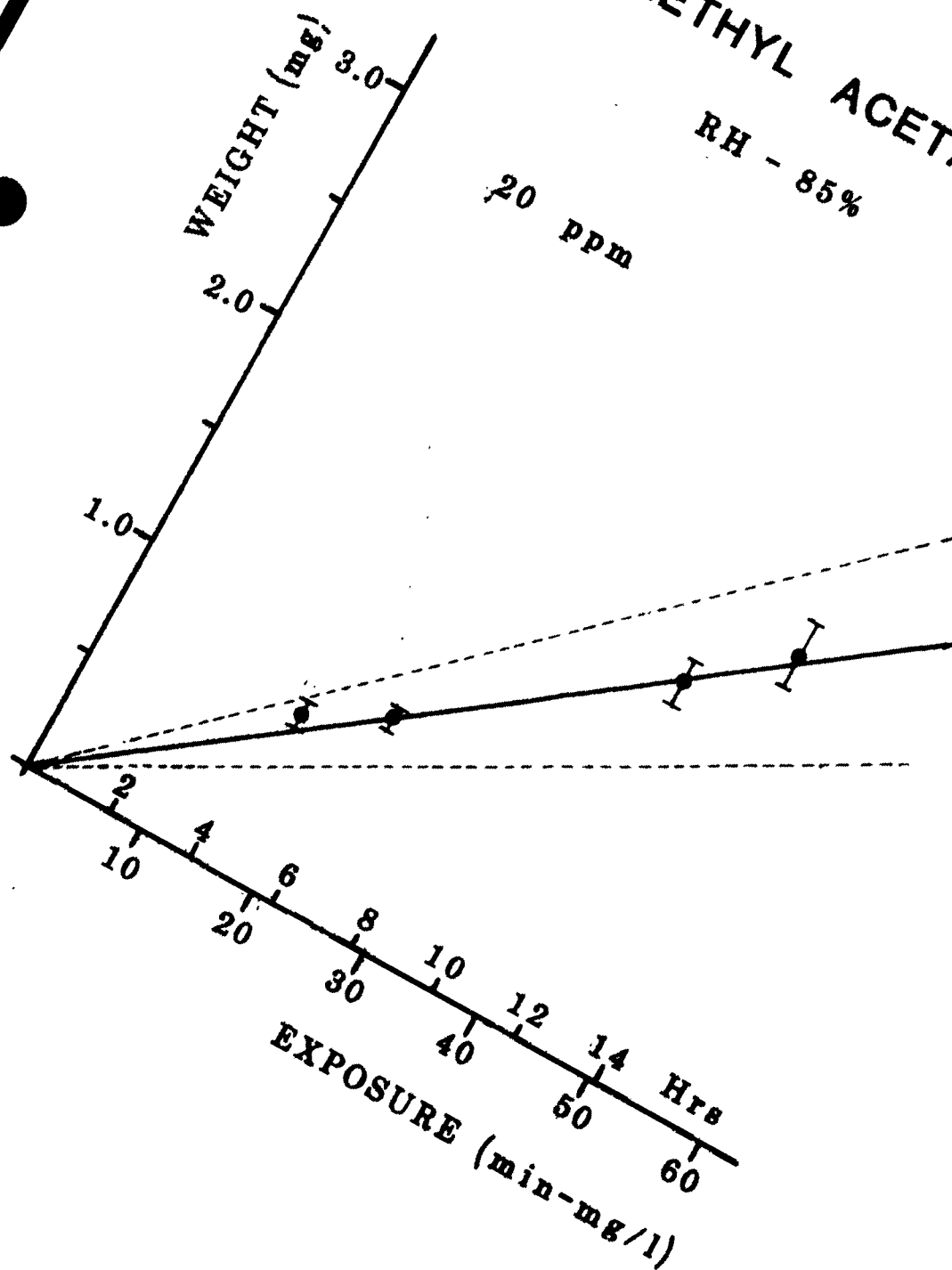
3M 005378

IV-30

# METHYL ACETATE

RH - 85%

20 ppm



3M 005379

## METHYL ACETATE

