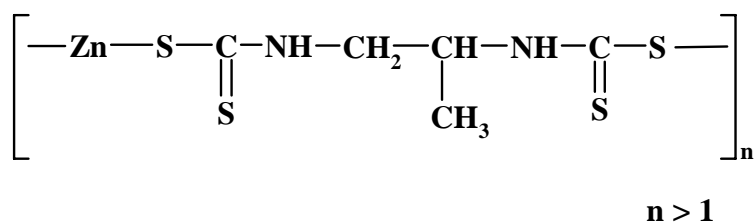


PROPINEB
177



<i>ISO common name</i>	Propineb
<i>Chemical name</i>	Zinc propylenebis(dithiocarbamate) (IUPAC); [[[(methyl-1,2-ethanediyl)bis(carbamothioato)](2-)] zinc (CA; 9016-72-2)
<i>Empirical formula</i>	C ₅ H ₈ N ₂ S ₄ Zn
<i>RMM</i>	289.8
<i>m.p.</i>	Decomposes above 160 °C
<i>Solubility</i>	Practically insoluble in all common solvents
<i>Description</i>	White to yellowish powder
<i>Stability</i>	Stable in cool, dry storage; decomposed in strongly acid or alkaline media
<i>Formulations</i>	Wettable powders and dusts

PROPINEB TECHNICAL
*177/TC/M/-

1 Sampling. Take at least 200 g. Fill the bottles completely and store them (not longer than 4 weeks) at a temperature below 20 °C.

2 Identity tests

2.1 CS₂ evolution. MT 153.

2.2 Spot test. MT 130.

2.3 Identification of amines. MT 152.

2.4 Zinc. MT 154.

3 Propineb. As for maneb technical **61/TC/M/3** CIPAC E, *p. 116*, omitting the treatment with tetrasodium EDTA, and except:

(c) *Calculation*

$$\text{Propineb content} = \frac{144.9 \times N \times (t - b)}{w} \text{ g/kg}$$

Repeatability r = 10 g/kg at 874 g/kg active ingredient content

Reproducibility R = 18 g/kg at 874 g/kg active ingredient content

4 Zinc. As for mancozeb technical **34/1/M/4**.

5 Arsenic. MT 99.

PROPINEB WETTABLE POWDERS
*177/WP/M/-

1 Sampling. Take at least 500 g. Fill the bottles completely and store them (not longer than 4 weeks) at a temperature below 20 °C.

2 Identity tests. As for propineb technical **177/TC/M/2**.

3 Propineb. As for propineb technical **177/TC/M/3**.

Repeatability r = 10 g/kg at 700 g/kg active ingredient content

Reproducibility R = 29 g/kg at 700 g/kg active ingredient content

* CIPAC method 1981. Prepared by the Dithiocarbamate Panel of PAC-UK. Chairman: A Stevenson (Robinson Bros. Ltd)

4 Zinc. As for mancozeb technical **34/1/M/4**.

5 Arsenic. MT 99.

6 Suspensibility. As for maneb wettable powders **61/WP/M/5**, CIPAC E, *p. 120*, except:

Mass of propineb in the 25 ml of suspension = $0.1449 \times N \times (t - b)$ 2g.

PROPINEB DUSTABLE POWDERS

***177/DP/M/-**

1 Sampling. Take at least 1 kg. Fill the bottles completely and store them (not longer than 4 weeks) at a temperature below 20 °C.

2 Identity tests. As for propineb technical **177/TC/M/2**.

3 Propineb. As for propineb technical **177/TC/M/3**.

4 Zinc. As for mancozeb technical **34/1/M/4**.

5 Arsenic. MT 99.

6 Dry sieve test. As for maneb dustable powders **61/DP/M/5**, CIPAC E, *p. 121*, except: Mass of propineb in the residue = $0.1449 \times N \times (t - b)$ 3g.

* CIPAC method 1981. Prepared by the Dithiocarbamate Panel of PAC-UK. Chairman: A Stevenson (Robinson Bros. Ltd)