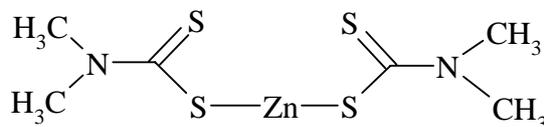


ZIRAM 31

ZIRAM 31



<i>ISO common name</i>	Ziram
<i>Chemical name</i>	Zinc bis(dimethyldithiocarbamate) (IUPAC); bis(dimethyldithiocarbamato) zinc (CA; 137-30-4)
<i>Empirical formula</i>	C ₆ H ₁₂ N ₂ S ₄ Zn
<i>RMM</i>	305.8
<i>m.p.</i>	246 °C
<i>v.p.</i>	Less than 10 ⁻⁵ Pa
<i>Solubility</i>	In water 1.56 mg/l at 25 °C; slightly soluble in diethylether and ethanol; moderately in acetone; soluble in carbondisulfide
<i>Description</i>	White odourless powder
<i>Stability</i>	Decomposed by acids
<i>Formulations</i>	Wettable powders, waterdispersible granules, suspension concentrates, dustable powders and paste

ZIRAM TECHNICAL

*31/TC/M/-

1 Sampling. Take at least 100 g.

2 Identity tests.

2.1 CS₂ evolution. MT 153, CIPAC F, p 360

2.2 Identification of amines. MT 152, CIPAC F, p 357

2.3 Zinc. MT 154, CIPAC F, p 361

* CIPAC method 1964; revised 1967. Prepared by the Dithiocarbamate Panel of PAC-GB; Chairman: H Crossley (The Murphy Chemical Co. Ltd.).

ZIRAM 31

3 Ziram. As for maneb technical **61/TC/M/3** omitting the initial treatment with tetrasodium EDTA, and except:

(c) *Calculation*

$$\text{Ziram content} = \frac{152.9 \times N \times (t - b)}{w} \text{ g/kg}$$

4 Zinc. As for mancozeb **34/TC/M/4**, CIPAC H, *p 195*

5 Arsenic. As for zineb technical **25/TC/M/5**.

ZIRAM WETTABLE POWDERS

***31/WP/M/-**

1 Sampling. Take at least 500 g.

2 Identity tests. As for ziram technical 31/TC/M/2.

3 Ziram. As for ziram technical 31/TC/M/3.

4 Zinc. As for mancozeb **34/TC/M/4**, CIPAC H, *p 195*

5 Arsenic. As for zineb technical 25/TC/M/5.

6 Suspensibility. As for maneb wettable powders **61/WP/M/5** omitting the initial treatment with tetrasodium EDTA, and except: Mass of ziram in the 25 ml of suspension = $0.1529 \times N \times (t - b)$ g.

ZIRAM DUSTABLE POWDERS

***31/DP/M/-**

1 Sampling. Take at least 1 kg.

2 Identity tests. As for ziram technical 31/TC/M/2.

3 Ziram. As for ziram technical 31/TC/M/3.

* CIPAC method 1964; revised 1967. Prepared by the Dithiocarbamate Panel of PAC-GB; Chairman: H Crossley (The Murphy Chemical Co. Ltd.).

ZIRAM 31

4 Zinc. As for mancozeb **34/TC/M/4**, CIPAC H, *p 195*

5 Arsenic. As for zineb technical **25/TC/M/5**.

6 Dry sieve test. As for maneb dustable powders **61/DP/M/5**, omitting the initial treatment with tetrasodium EDTA and except:

Mass of ziram in the residue = $0.1529 \times N \times (t-b)$ g

ZIRAM WATER DISPERSIBLE GRANULES

***31/WG/M/-**

1 Sampling. Take at least 500 g.

2 Identity tests. As for ziram technical **31/TC/M/2**.

3 Ziram. As for ziram technical **31/TC/M/3**.

4 Zinc. As for mancozeb **34/TC/M/4**, CIPAC H, *p 195*

5 Arsenic. As for zineb technical **25/TC/M/5**.

6 Suspensibility. As for MT 168 and ziram wettable powders **31/WP/M/6**.

ZIRAM SUSPENSION CONCENTRATES

***31/SC/M/-**

1 Sampling. Take at least 1 l.

2 Identity tests. As for ziram technical **31/TC/M/2**.

3 Ziram. As for ziram technical **31/TC/M/3**.

4 Zinc. As for mancozeb **34/TC/M/4**, CIPAC H, *p 195*

5 Arsenic. As for zineb technical **25/TC/M/5**.

6 Suspensibility. As for MT 161, CIPAC F, *p 394* and ziram technical **31/TC/M/3** except that, if the presumed ziram is below 1.5 g then use standard iodine solution $c(1/2 I_2) = 0.05$ mol/l.

* CIPAC method 1964; revised 1967. Prepared by the Dithiocarbamate Panel of PAC-GB;
Chairman: H Crossley (The Murphy Chemical Co. Ltd.).

