

Lampiran 2. Analisis Probit (LC₅₀-48 jam) Metil Metsulfuron Terhadap *Daphnia* sp.

d (Konsentrasi ppm)	n (Σ hewan uji)	r (Mortalitas)	D (% mortalitas)	X (Log konsentrasi)	X²	Y (Probit % mortalitas)	XY
20,89	150	0	0	1,319	1,739	0	0
43,64	150	0	0	1,639	2,686	0	0
91,17	150	48	32	1,959	3,837	4,53	8,874
190,48	150	82	54	2,279	5,193	5,10	11,622
397,96	150	150	100	2,599	6,754	8,71	22,637
Jumlah				9,795	20,209	18,34	43,133

$$b = \frac{\Sigma XY - 1/n (\Sigma X) (\Sigma Y)}{\Sigma X^2 - 1/n (\Sigma X)^2}$$

$$b = \frac{43,133 - 1/5 (9,795) (18,34)}{20,209 - 1/5 (9,795)^2}$$

$$b = \frac{43,133 - 35,928}{1,021}$$

$$b = \frac{7,205}{1,021}$$

$$a = \frac{7,056}{1/n (\Sigma Y - b \Sigma X)}$$

$$a = 1/5 (18,34 - (7,056) (9,795))$$

$$= 0,2 (18,34 - 69,113)$$

$$= 0,2 (-50,773)$$

$$= -10,154$$

$$M = \frac{5 - a}{b}$$

$$M = \frac{5 - (-10,154)}{7,056}$$

$$M = 2,147$$

$$LC_{50-48 \text{ jam}} = \text{anti log } m$$

$$LC_{50-48 \text{ jam}} = \text{anti log } 2,147$$

$$= 140,2 \text{ ppm}$$