

Lampiran 1. Perhitungan Titik Didih Air Garam

Titik didih air garam diperoleh dengan perhitungan, dimana garam yang digunakan sebanyak 1000 gram dan pelarut air 5 liter.

$$\text{Air} = 5 \text{ liter} = 5000 \text{ gr}$$

$$\text{Garam} = 1000 \text{ gr}$$

$$Mr \text{ garam (NaCl)} = 28 \text{ gr/mol}$$

$$m = \frac{1000 \text{ gr}}{28 \text{ gr/mol}} \times \frac{1000 \text{ gr/kg}}{5000 \text{ gr}}$$

$$= 7,14 \text{ m}$$

$$\Delta T_d = K_d \times m$$

$$= 0,52 \text{ }^{\circ}\text{C m}^{-1} \times 7,14 \text{ m}$$

$$= 3,714^{\circ}\text{C}$$

$$\text{Titik didih air garam} = 100^{\circ}\text{C} + 3,714^{\circ}\text{C} = 103,714^{\circ}\text{C}.$$