

Solution

$$1 \quad C = \frac{92,39}{12,9} = 7,69 / 7,69 = 1$$

$$H = \frac{27,7}{1} = 7,7 / 7,69 = 1 = CH$$

$$2 \quad Na = \frac{45,34}{23,9/mol} = 1,408 / 0,703 = 2$$

$$S = \frac{22,5}{32,9/mol} = 0,703 / 0,703 = 1 = Na_2SO_4$$

$$O = \frac{45,1}{16 \text{ g/mol}} = 2,818 / 0,703 = 4$$

$$3 \quad C = \frac{48}{12 \text{ g/mol}} = 4 / 0,4 = 10$$

$$H = \frac{4}{1 \text{ g/mol}} = 4 / 0,4 = 10$$

$$N = \frac{72,04}{14 \text{ g/mol}} = 1,6 / 0,4 = 4 = C_{10}H_{10}N_4SO_2$$

$$S = \frac{12,8}{32} = 0,4 / 0,4 = 1$$

$$O = \frac{12,8}{16 \text{ g/mol}} = 0,8 / 0,4 = 2$$

$$4 \quad N = \frac{0,0709}{14} = 0,005 = 1$$

$$= NO_{10}$$

$$O = \frac{0,018}{16} = 0,051 = 10$$

$$5 \quad Na = \frac{21,6}{23} = 0,939 / 0,951 = 1$$

$$Cl = \frac{33,3}{35} = 0,951 / 0,951 = 1 = NaClO_3$$

$$O = \frac{45,1}{16} = 2,818 / 0,951 = 3$$

