```
Øving 3
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1: E

2: C

3: D

4: E

## 3.16:

15.3  $mol\ Ag = 15.3\ mol\cdot 196.97\ g\ mol^{-1} = 3.01\cdot 10^3\ g = 3.01\ kg$  (Det kunne du solgt for en del...)

## 3.23:

Alle enhetene er g/mol

- a.  $12.01 + 4 \cdot 1.008 = 16.04$
- b.  $14.01 + 2 \cdot 16.00 = 46.01$
- c.  $32.06 + 3 \cdot 16.00 = 80.06$
- d.  $6 \cdot 12.01 + 6 \cdot 1.008 = 78.11$
- e. 22.99 + 126.9 = 149.9
- f.  $2 \cdot 39.10 + 32.06 + 4 \cdot 16.00 = 174.3$
- g.  $3 \cdot 40.08 + 2 \cdot (30.97 + 4 \cdot 16.00) = 310.2$

### 3.50

$$\frac{40.1}{12} = 3.34$$

$$\frac{6.6}{1} = 6.6$$

$$\frac{53.3}{16} = 4.43$$

$$\frac{6.6}{3.34} \approx 2$$

$$\frac{6.6}{4.43}\approx 1.5$$

Empirisk formel: C2H4O3

#### b)

Samme prosess som I a

Empirisk formel: CNK

# 3.84

$$\frac{0.740 \ g}{48.00 \ g \ mol^{-1}} = 0.0154 \ mol$$
$$\frac{0.670 \ g}{30.01 \ g \ mol^{-1}} = 0.0223 \ mol$$

Ozon er begrensende reaktant

$$\begin{array}{l} 0.0154\ mol \cdot 46.01\ g\ mol^{-1} = 0.709\ g\ NO_2\ dannes \\ (0.0223\ -0.0154)mol \cdot 30.01\ g\ mol^{-1} = 0.207\ g\ NO\ er\ til\ overs \end{array}$$