SOLUCION

1. C_2H_6O

M = 82.5g
V = 0.45L
Pm = 46

12 · 2 = 24
1 · 6 = 6
16 · 1 = 16

$M = \frac{82.5}{(46)(0.45)} = \frac{82.5}{20.7} = 3.98\,M$

2. V = 1000 ml = 7L
n = 4.78 mol
M = 0.682 M

3. n = 0.10 gm
M = 0.05 M

$n = \frac{3.65}{365} = 0.10m$ $m = \frac{0.10}{2} = 0.05m$

4. V = 0.250L
N = 0.500ML
M = 2M

$N = \frac{49.04g}{98\,g/mol} = 0.500\,ml$ | $V = \frac{250}{1000} = 0.25L$

$M = \frac{0.500M}{0.250L} = 2M$