

Question #34828

What mass of water contains 42.0g of oxygen?

Solution:

The mass portion of oxygen in water is $\frac{16.00}{1.01 \cdot 2 + 16.00} = 0.888$, so mass of water which contains 42.0g of oxygen is $42.0 / 0.888 = 47.3$

Answer: 47.3g of water contains 42.0g of oxygen.