

Question #75127, Chemistry / General Chemistry

How many moles of aluminum are needed to completely react with 1.2 mols of FeO?



Solution

As we can see from this chemical equation 2 mols of Al react with 3 mols of FeO. That's why we can create proportion:

2 mols Al – 3 mols FeO

x mols Al – 1.2 mols FeO

$$\frac{2}{x} = \frac{3}{1.2}$$

$$x = \frac{2 \cdot 1.2}{3} = 0.8 \text{ mol}$$

Answer

0.8 mol Al

Answer provided by AssignmentExpert.com