how many formula units are there in 24 grams of FeCl3

Solution. It is known that 1 mole of a substance contains 6.02×10^{23} formula units. Then, 24 grams FeCl₃ make up: $\frac{m(FeCl_3)}{M(FeCl_3)} = \frac{24}{162.5} = 0.15$ moles. Then, 24 grams of FeCl₃ make up $0.15\times6.02\times10^{23} = 9\times10^{22}$ formula units.

Answer: 9×10^{22} formula units.

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