$$\frac{P}{V} = \frac{P}{V_m} + \frac{1}{aV_m}$$

$$P(kPa)$$
 6.8 13.5 26.7 53.1 79.4  $V(cm^3g)$  74. 111. 141 177 189.  $P(cm^3g)$  0.122 0.182. 0.300 0.420.

$$\frac{1}{V_m} = 0.0045.$$
  $\Rightarrow V_m = \frac{1}{0.0645} = 7.22,2 \text{ cm}^3/9.$ 

$$\frac{1}{aVm} = 0.06/3 \Rightarrow a = \frac{1}{3.6.} = 0.0035. \frac{1}{kPa}$$

$$= 0.35 \times 10^{3} \frac{1}{k P_{a}}$$

$$= 0.35 \times 10^{-5} \frac{1}{k}$$

