621: 547

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 $k_5 = 0, \qquad k_8 = 0.$ 

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$$(b) + \frac{1}{2}O_2 \rightarrow CO$$
,  $K_P = \frac{P_{[CO]}}{P_{\{O_2\}^{1/2}}}$ ,  $lgK_P = 4,692 + \frac{5772}{T}$ .

$$\begin{split} & 3Fe_2O_3 + CO {\rightarrow} 2Fe_3O_4 + CO_2, \qquad K_p = \frac{P_{[CO_2]}}{P_{[CO]}}, \qquad lgK_p = 4, 31 + \frac{558}{T} \\ & Fe_3O_4 + CO {\rightarrow} 3FeO + CO_2, \qquad K_p = \frac{P_{[CO_2]}}{P_{[CO]}}, \qquad lgK_p = 2, 08 - \frac{1847}{T}, \\ & FeO + CO {\rightarrow} Fe + CO_2, \qquad K_p = \frac{P_{[CO_2]}}{P_{[CO]}}, \qquad lgK_p = -1, 25 + \frac{1060}{T}. \end{split}$$

:  

$$3Fe_2O_3 + {}_2 \rightarrow 2Fe_3O_4 + {}_2O'$$

$$Fe_3O_4 + {}_2 \rightarrow 3FeO + {}_2O'$$

$$FeO + {}_2 \rightarrow Fe + {}_2O'$$

(II)

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, FeO Fe

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. (III)

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$$K_P = \frac{\% V_{(CO_2)}}{\% V_{(CO)}}$$

 $V_{(CO_2)} V_{(CO)}$ 

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$$\frac{\frac{\% V_{(CO_2)} \times \% V_{(sum)}}{V_{(M)}} = \frac{\% CO_2 \times m_{(sum)}}{M_{(CO_2)}},$$

$$V_{(sum)} m_{(sum)} - , ; V_{(M)} - ;$$

$$M_{(CO_2)}^- 2, ;$$

$$M_{(CO_2)}^- 2, ;$$

$$W_{(CO_2)} = \frac{\% CO_2 \times m_{(sum)}}{V_{(sum)} \times V_{(M)}} \times M_{(CO_2)}, ;$$

$$W_{(CO)} = \frac{\% CO \times m_{(sum)}}{V_{(sum)} \times V_{(M)}} \times M_{(CO)}.$$

$$K_{P} = \frac{(\% \ CO_{2} \times m_{(sum)})/(V_{(sum)} \times V_{(M)})^{/44}}{(\% \ CO \times m_{(sum)})/(V_{(sum)} \times V_{(M)})^{/28)}} = \frac{7 \times \% \ CO_{2}}{11 \times \% \ CO}.$$

$$lg\left(\frac{\% \ CO_2}{\% \ CO}\right) = 4.5 - \frac{558}{t + 273}$$

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$$O + \frac{1}{2}O_2 \to CO_2, \qquad K_P = \frac{P_{[CO_2]}}{P_{[CO]} \times P_{[O_2]^{1/2}}}, \qquad lgK_P = -4,57 + \frac{14758}{T}.$$

$$_2 + \frac{1}{2} \ _2 \to \ _2O, \qquad K_P = \frac{P_{[2O]}}{P_{[2]} \times P_{[O_2]^{1/2}}}, \qquad lgK_P = -2,825 + \frac{12849}{T}$$

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