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|--|---|
| ▲ $\text{CO}_2 + * \rightarrow \text{CO}_2^*$ | ▼ $\text{CO}_2 + * \leftarrow \text{CO}_2^*$ |
| ◆ $\text{H}_2 + 2 * \rightarrow 2 \text{H}^*$ | ◼ $\text{H}_2 + 2 * \leftarrow 2 \text{H}^*$ |
| ◈ $\text{H}_2\text{O} + * \rightarrow \text{H}_2\text{O}^*$ | ◈ $\text{H}_2\text{O} + * \leftarrow \text{H}_2\text{O}^*$ |
| ◉ $\text{CO}_2^* + * \rightarrow \text{CO}^* + \text{O}^*$ | ◉ $\text{CO}_2^* + * \leftarrow \text{CO}^* + \text{O}^*$ |
| ◊ $\text{CO}_2^* + \text{H}^* \rightarrow \text{HCOO}^* + *$ | ✦ $\text{CO}_2^* + \text{H}^* \leftarrow \text{HCOO}^* + *$ |
| ✦ $\text{CO}_2^* + \text{H}^* \rightarrow \text{COOH}^* + *$ | ✦ $\text{CO}_2^* + \text{H}^* \leftarrow \text{COOH}^* + *$ |
| ✦ $\text{CO}_2^* + \text{OH}^* \rightarrow \text{COOH}^* + \text{O}^*$ | ✦ $\text{CO}_2^* + \text{OH}^* \leftarrow \text{COOH}^* + \text{O}^*$ |
| ✦ $\text{CO}_2^* + \text{H}_2\text{O}^* \rightarrow \text{COOH}^* + \text{OH}^*$ | ◊ $\text{CO}_2^* + \text{H}_2\text{O}^* \leftarrow \text{COOH}^* + \text{OH}^*$ |
| ◊ $\text{CO}_2^* + \text{OH}^* \rightarrow \text{HCOO}^* + \text{O}^*$ | ◊ $\text{CO}_2^* + \text{OH}^* \leftarrow \text{HCOO}^* + \text{O}^*$ |
| ◊ $\text{CO}_2^* + \text{H}_2\text{O}^* \rightarrow \text{HCOO}^* + \text{OH}^*$ | ◊ $\text{CO}_2^* + \text{H}_2\text{O}^* \leftarrow \text{HCOO}^* + \text{OH}^*$ |
| ● $\text{COOH}^* + * \rightarrow \text{CO}^* + \text{OH}^*$ | ● $\text{COOH}^* + * \leftarrow \text{CO}^* + \text{OH}^*$ |
| ● $\text{COOH}^* + * \rightarrow \text{COH}^* + \text{O}^*$ | ● $\text{COOH}^* + * \leftarrow \text{COH}^* + \text{O}^*$ |
| ● $\text{HCOO}^* + * \rightarrow \text{O}^* + \text{HCO}^*$ | ● $\text{HCOO}^* + * \leftarrow \text{O}^* + \text{HCO}^*$ |
| ● $\text{CO}^* + * \rightarrow \text{C}^* + \text{O}^*$ | ● $\text{CO}^* + * \leftarrow \text{C}^* + \text{O}^*$ |
| ● $\text{HCO}^* + * \rightarrow \text{CO}^* + \text{H}^*$ | ● $\text{HCO}^* + * \leftarrow \text{CO}^* + \text{H}^*$ |
| ● $\text{HCO}^* + * \rightarrow \text{CH}^* + \text{O}^*$ | ● $\text{HCO}^* + * \leftarrow \text{CH}^* + \text{O}^*$ |
| ● $\text{COH}^* + * \rightarrow \text{CO}^* + \text{H}^*$ | ● $\text{COH}^* + * \leftarrow \text{CO}^* + \text{H}^*$ |
| ● $\text{COH}^* + * \rightarrow \text{C}^* + \text{OH}^*$ | ● $\text{COH}^* + * \leftarrow \text{C}^* + \text{OH}^*$ |
| ● $\text{C}^* + \text{H}^* \rightarrow \text{CH}^* + *$ | ● $\text{C}^* + \text{H}^* \leftarrow \text{CH}^* + *$ |
| ● $\text{CH}^* + \text{H}^* \rightarrow \text{CH}_2^* + *$ | ● $\text{CH}^* + \text{H}^* \leftarrow \text{CH}_2^* + *$ |
| ● $\text{CH}_2^* + \text{H}^* \rightarrow \text{CH}_3^* + *$ | ● $\text{CH}_2^* + \text{H}^* \leftarrow \text{CH}_3^* + *$ |
| ● $\text{HCO}^* + \text{H}^* \rightarrow \text{CH}_2\text{O}^* + *$ | ● $\text{HCO}^* + \text{H}^* \leftarrow \text{CH}_2\text{O}^* + *$ |
| ● $\text{HCO}^* + \text{H}^* \rightarrow \text{HCOH}^* + *$ | ● $\text{HCO}^* + \text{H}^* \leftarrow \text{HCOH}^* + *$ |
| ● $\text{COH}^* + \text{H}^* \rightarrow \text{HCOH}^* + *$ | ● $\text{COH}^* + \text{H}^* \leftarrow \text{HCOH}^* + *$ |
| ● $\text{HCOH}^* + * \rightarrow \text{CH}^* + \text{OH}^*$ | ● $\text{HCOH}^* + * \leftarrow \text{CH}^* + \text{OH}^*$ |
| ● $\text{HCOH}^* + \text{H}^* \rightarrow \text{CH}_2\text{OH}^* + *$ | ● $\text{HCOH}^* + \text{H}^* \leftarrow \text{CH}_2\text{OH}^* + *$ |
| ● $\text{CH}_2\text{OH}^* + * \rightarrow \text{CH}_2^* + \text{OH}^*$ | ● $\text{CH}_2\text{OH}^* + * \leftarrow \text{CH}_2^* + \text{OH}^*$ |
| ● $\text{CH}_2\text{OH}^* + \text{H}^* \rightarrow \text{CH}_3\text{OH}^* + *$ | ● $\text{CH}_2\text{OH}^* + \text{H}^* \leftarrow \text{CH}_3\text{OH}^* + *$ |
| ● $\text{CH}_2\text{O}^* + \text{H}^* \rightarrow \text{CH}_2\text{OH}^* + *$ | ● $\text{CH}_2\text{O}^* + \text{H}^* \leftarrow \text{CH}_2\text{OH}^* + *$ |
| ● $\text{CH}_2\text{O}^* + * \rightarrow \text{CH}_2^* + \text{O}^*$ | ● $\text{CH}_2\text{O}^* + * \leftarrow \text{CH}_2^* + \text{O}^*$ |
| ● $\text{CH}_2\text{O}^* + \text{H}^* \rightarrow \text{CH}_3\text{O}^* + *$ | ● $\text{CH}_2\text{O}^* + \text{H}^* \leftarrow \text{CH}_3\text{O}^* + *$ |
| ● $\text{CH}_3\text{O}^* + * \rightarrow \text{CH}_3^* + \text{O}^*$ | ● $\text{CH}_3\text{O}^* + * \leftarrow \text{CH}_3^* + \text{O}^*$ |
| ● $\text{CH}_3\text{O}^* + \text{H}^* \rightarrow \text{CH}_3\text{OH}^* + *$ | ● $\text{CH}_3\text{O}^* + \text{H}^* \leftarrow \text{CH}_3\text{OH}^* + *$ |
| ● $\text{CH}_3\text{OH}^* + * \rightarrow \text{CH}_3^* + \text{OH}^*$ | ● $\text{CH}_3\text{OH}^* + * \leftarrow \text{CH}_3^* + \text{OH}^*$ |
| ● $\text{O}^* + \text{H}^* \rightarrow \text{OH}^* + *$ | ● $\text{O}^* + \text{H}^* \leftarrow \text{OH}^* + *$ |
| ● $\text{OH}^* + \text{H}^* \rightarrow \text{H}_2\text{O}^* + *$ | ● $\text{OH}^* + \text{H}^* \leftarrow \text{H}_2\text{O}^* + *$ |
| ● $\text{OH}^* + \text{OH}^* \rightarrow \text{O}^* + \text{H}_2\text{O}^*$ | ● $\text{OH}^* + \text{OH}^* \leftarrow \text{O}^* + \text{H}_2\text{O}^*$ |
| ● $\text{CH}_4 + 2 * \rightarrow \text{CH}_3^* + \text{H}^*$ | ● $\text{CH}_4 + 2 * \leftarrow \text{CH}_3^* + \text{H}^*$ |
| ● $\text{CH}_3\text{OH} + * \rightarrow \text{CH}_3\text{OH}^*$ | ● $\text{CH}_3\text{OH} + * \leftarrow \text{CH}_3\text{OH}^*$ |