

← CO2 + * -> CO2* **-**CO2 + * <- CO2* **→** CO + * -> CO* → H2 + 2 * -> 2 H* → H2 + 2 * <- 2 H*</p> → CO2* + H* <- HCOO* + *
</p> → CO2* + H* -> COOH* + * ★ CO2* + H* <- COOH* + * ★ CO2* + OH* -> COOH* + O* ★ CO2* + OH* <- COOH* + O*
</p> * CO2* + H2O* -> COOH* + OH* --- CO2* + H2O* <- COOH* + OH* --- CO2* + OH* -> HCOO* + O* --- CO2* + OH* <- HCOO* + O* --- CO2* + H2O* -> HCOO* + OH* --- CO2* + H2O* <- HCOO* + OH* --- COOH* + * -> CO* + OH* --- COOH* + * <- CO* + OH* --- COOH* + * -> COH* + O* --- COOH* + * <- COH* + O* --- HCOO* + * -> O* + HCO* --- HCOO* + * <- O* + HCO* --- CO* + * -> C* + O* --- CO* + * <- C* + O* --- HCO* + * -> CO* + H* --- HCO* + * <- CO* + H* --- HCO* + * -> CH* + O* --- HCO* + * <- CH* + O* --- COH* + * -> CO* + H* COH* + * <- CO* + H*</p> --- COH* + * -> C* + OH* --- COH* + * <- C* + OH* --- C* + H* -> CH* + * --- C* + H* <- CH* + * --- CH* + H* -> CH2* + * --- CH* + H* <- CH2* + * --- CH2* + H* -> CH3* + * --- CH2* + H* <- CH3* + * --- HCO* + H* -> CH2O* + * --- HCO* + H* <- CH2O* + * --- HCO* + H* -> HCOH* + * --- HCO* + H* <- HCOH* + * --- COH* + H* -> HCOH* + * --- COH* + H* <- HCOH* + * --- HCOH* + * -> CH* + OH* --- HCOH* + * <- CH* + OH* --- HCOH* + H* -> CH2OH* + * --- HCOH* + H* <- CH2OH* + * --- CH2OH* + * -> CH2* + OH* --- CH2OH* + * <- CH2* + OH* --- CH2OH* + H* -> CH3OH* + * --- CH2OH* + H* <- CH3OH* + * --- CH2O* + H* -> CH2OH* + * --- CH2O* + H* <- CH2OH* + * --- CH2O* + * -> CH2* + O* --- CH2O* + * <- CH2* + O* --- CH2O* + H* -> CH3O* + * --- CH2O* + H* <- CH3O* + * --- CH30* + * -> CH3* + O* --- CH3O* + * <- CH3* + O* --- CH3O* + H* -> CH3OH* + * --- CH3O* + H* <- CH3OH* + * --- CH3OH* + * -> CH3* + OH* --- CH3OH* + * <- CH3* + OH* **-**O* + H* <- OH* + * **→** O* + H* -> OH* + * --- OH* + H* -> H2O* + * --- OH* + H* <- H2O* + * --- OH* + OH* -> O* + H2O* OH* + OH* <- O* + H2O*</p> -- H2O + * <- H2O* --- H2O + * -> H2O*

--- CH4 + 2 * <- CH3* + H*

--- CH3OH + * <- CH3OH*

CH2O + * <- CH2O*</p>

--- CH4 + 2 * -> CH3* + H*

--- CH3OH + * -> CH3OH*

--- CH2O + * -> CH2O*