

Stof bevat	product	Effect op milieu	Toelichting
H	$H_2O$	niets	
C	$CO_2$ CO C (roet)	Broeikaseffect Zeer giftig, smog Fijnstof (smog)	Bij onvolledige verbranding
S	$SO_2$	Zure decompositie, giftig smog	
N	$N_2$ $NO_x$	niets Zure decompositie, giftig, smog	

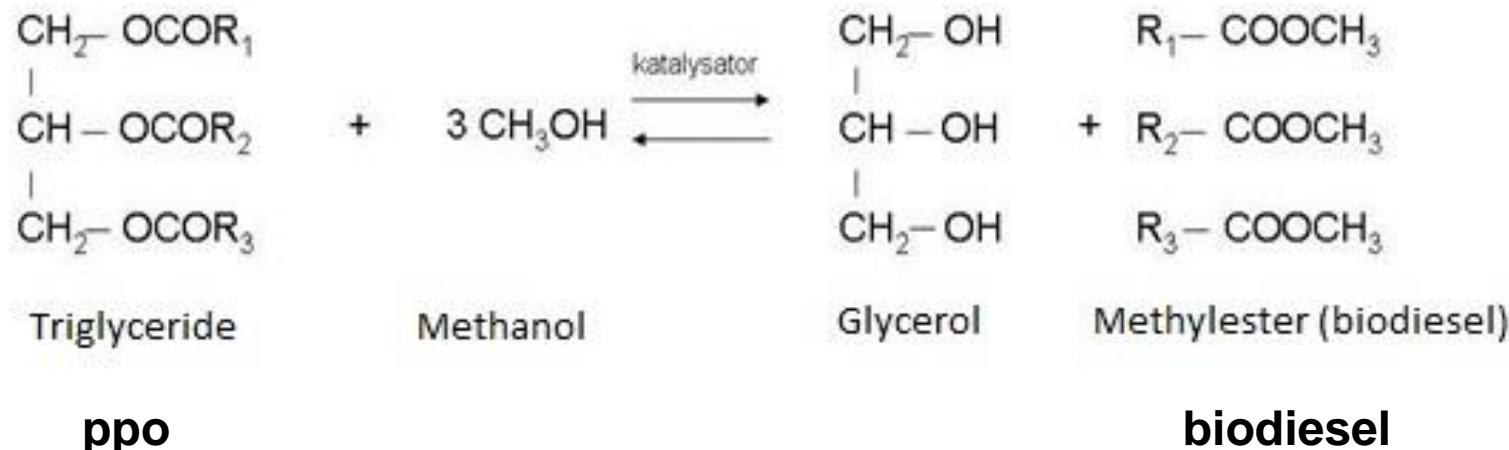
# CO<sub>2</sub>-neutraal

## Biobrandstoffen

- PPO (pure plantaardige olie)
- Biodiesel
- Biogas

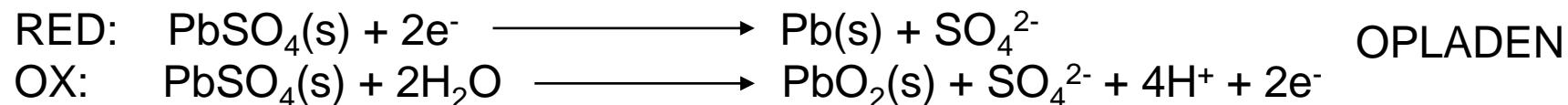
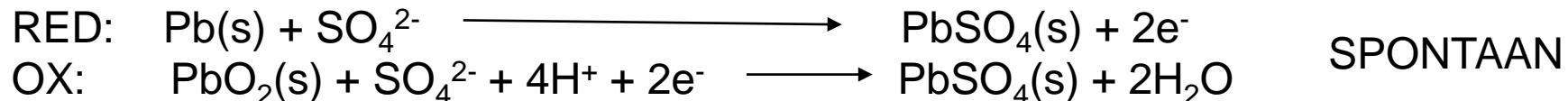
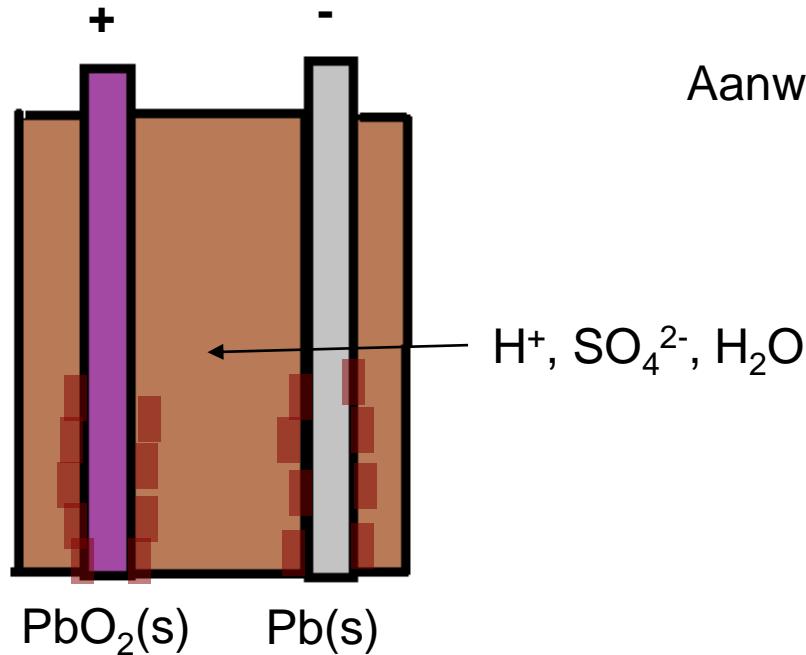
# Biodiesel maken

ppo omesteren met methanol



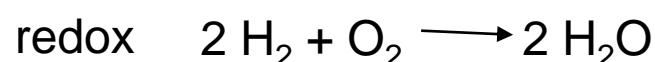
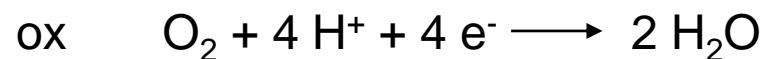
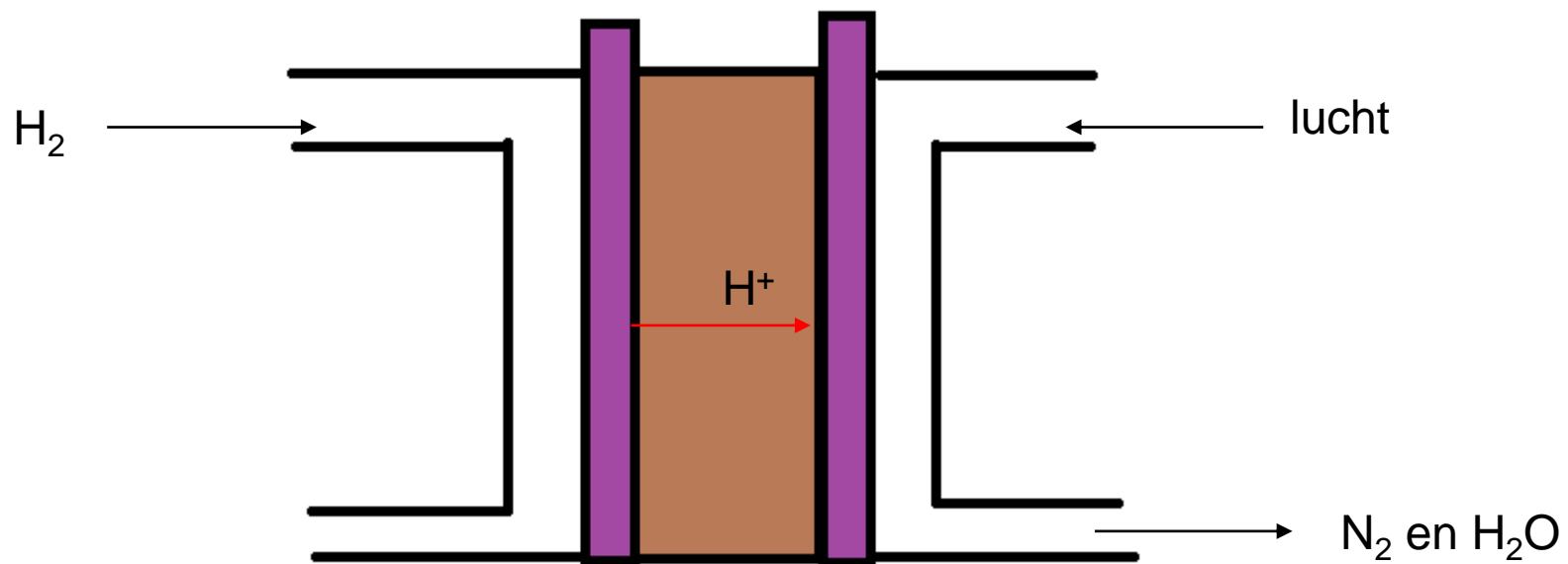
## Binas 48: Halfreacties.

Reacie verloopt spontaan als de oxidatie halfreactie hoger staat dan de reductie halfreactie.

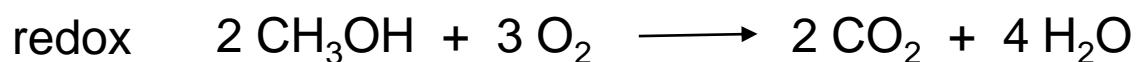
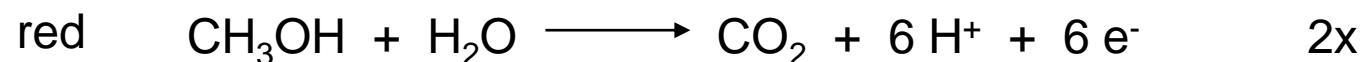
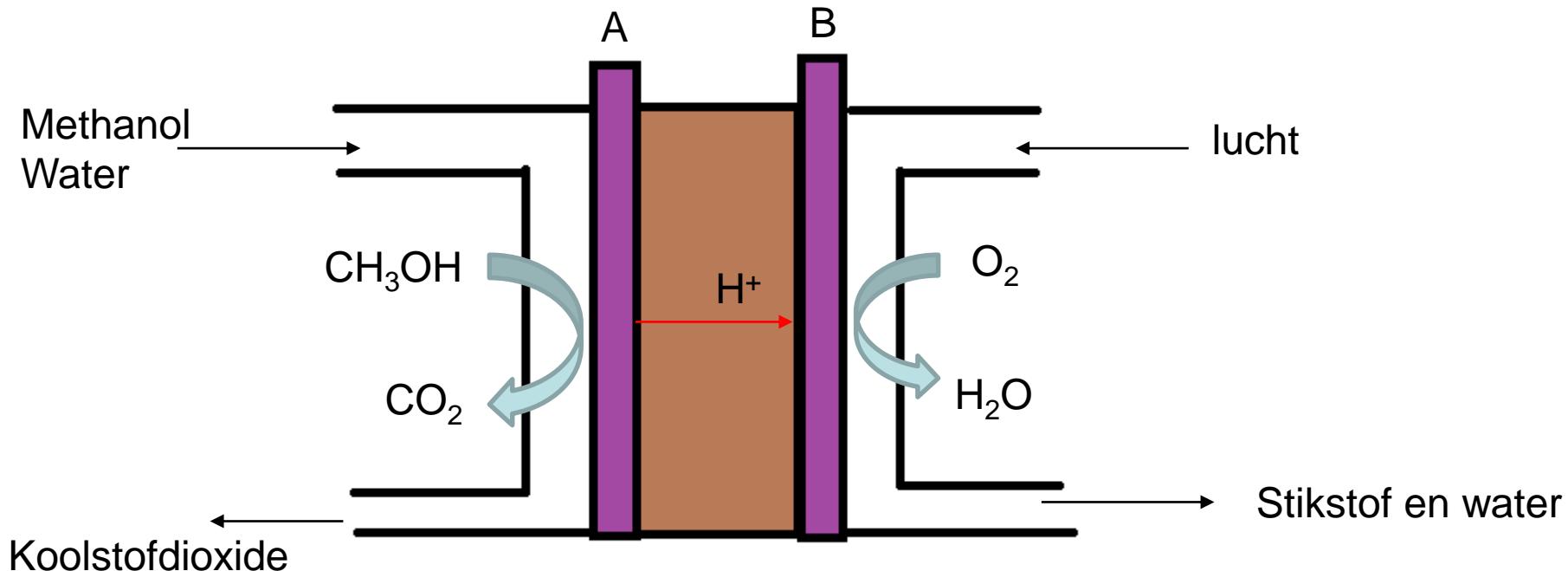


## Brandstofcellen

- Waterstof-brandstofcel
- Methanol-brandstofcel (DMFC)

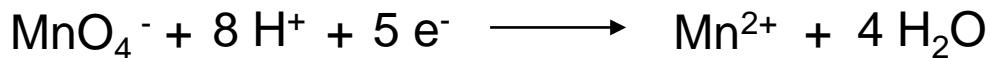


# DMFC



# REDOX

Halfreacties kloppend maken.



1. O kloppend maken met  $\text{H}_2\text{O}$
2. H kloppend maken met  $\text{H}^+$
3. Lading kloppend maken met  $\text{e}^-$

