

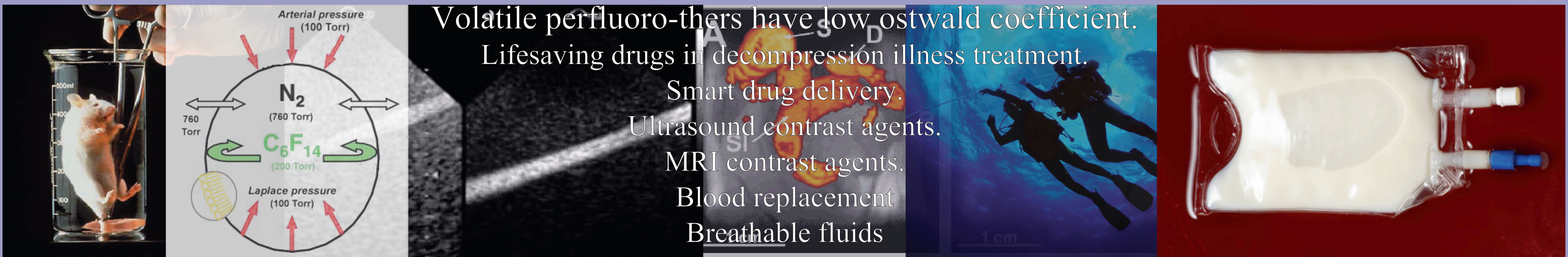
Reactions under novel conditions: Simplified kinetic study of the reaction between perfluoro-methyl-hypofluorite and perfluoro-olefins :



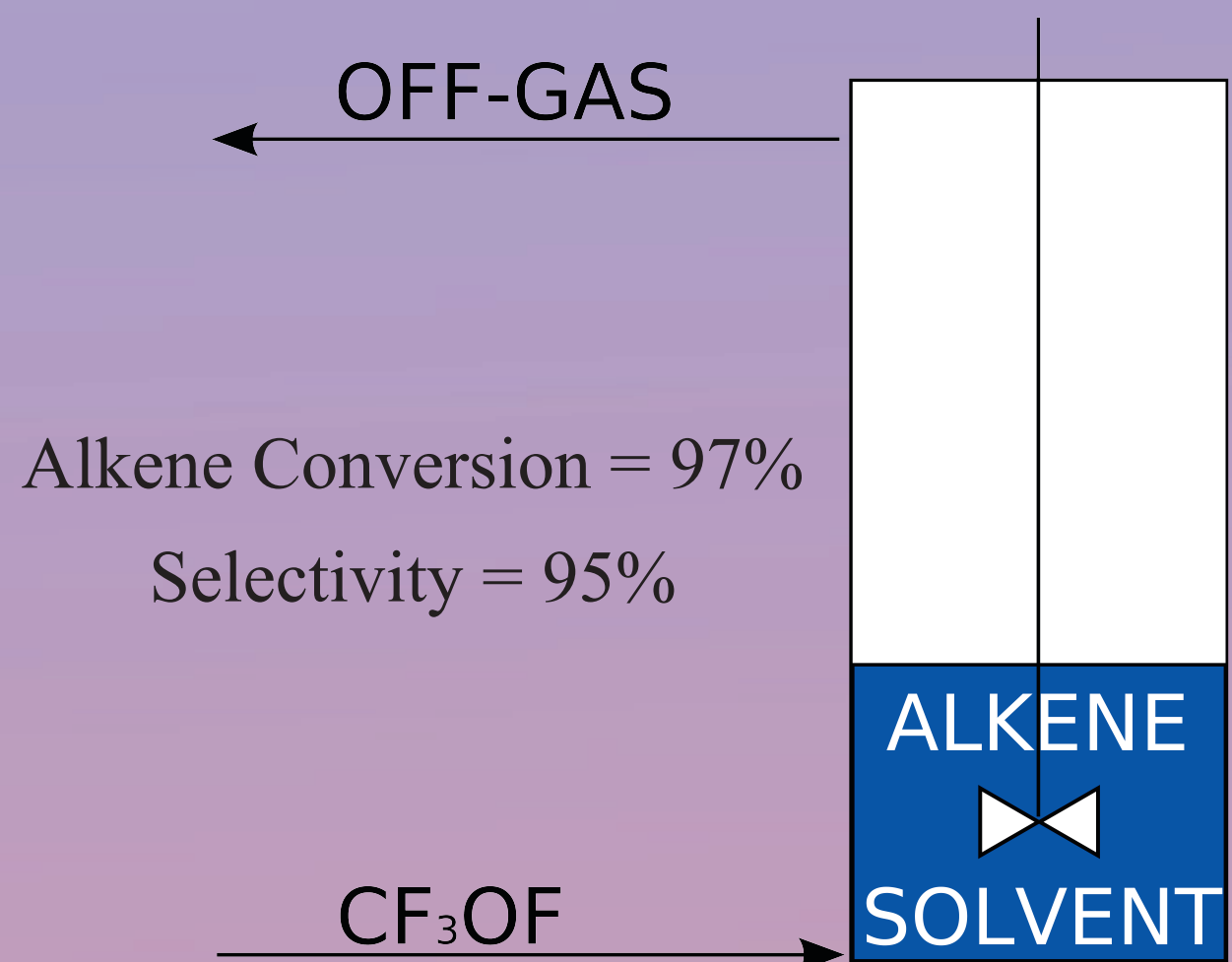
Venturini Francesco^(a), Navarrini Walter^(a), Sansotera Maurizio^(a), Galimberti Marco^(b), Barchiesi Emma^(b), Dardani Patrizia^(b), Metrangolo Pierangelo^(a), Resnati Giuseppe^(a)

^(a) DCMIC Politecnico di Milano, Via Mancinelli 7, 20131, Milano, Italy

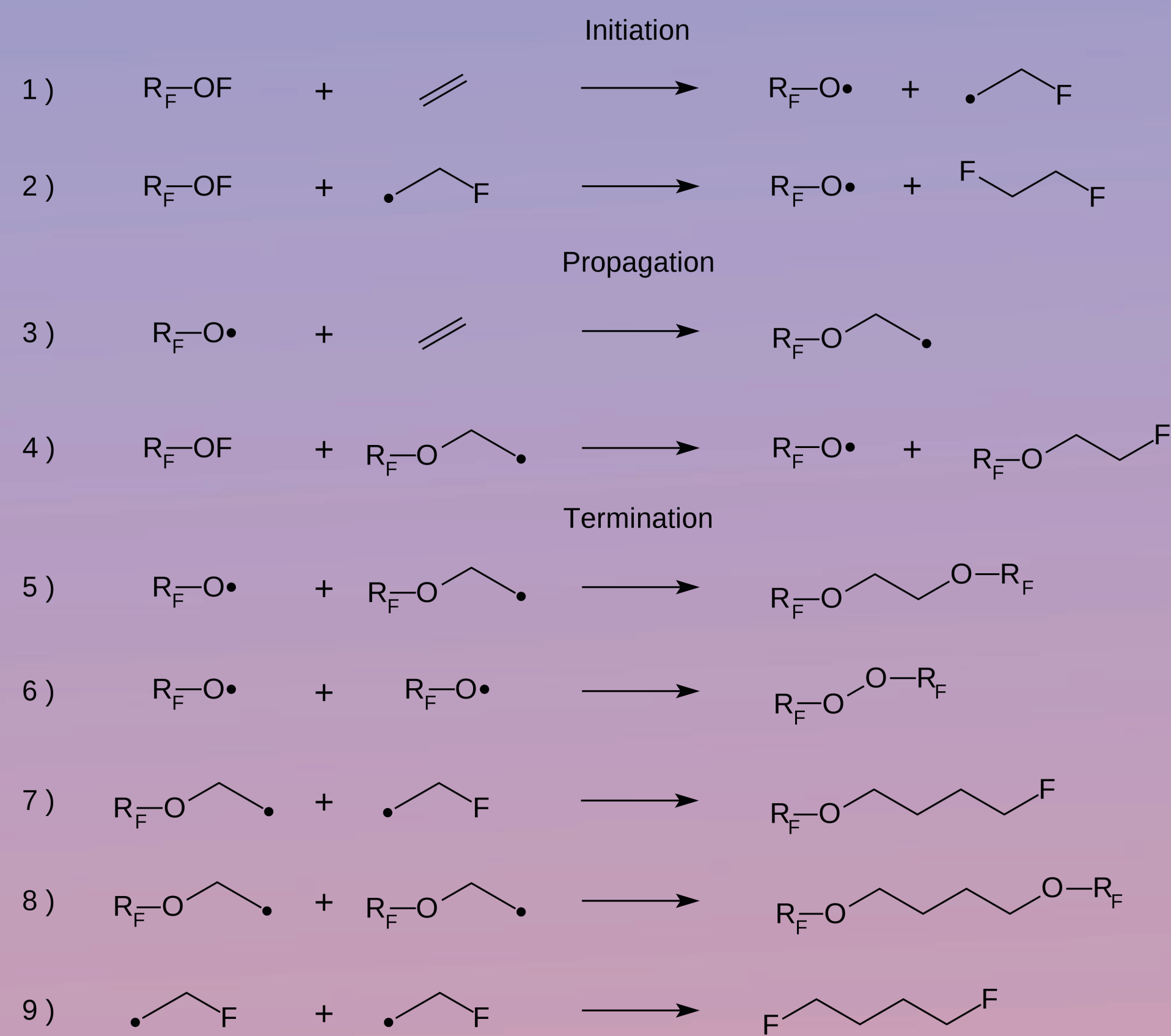
^(b) Solvay Solexis R&D, Viale Lombardia 20, 20021, Bollate, Italy



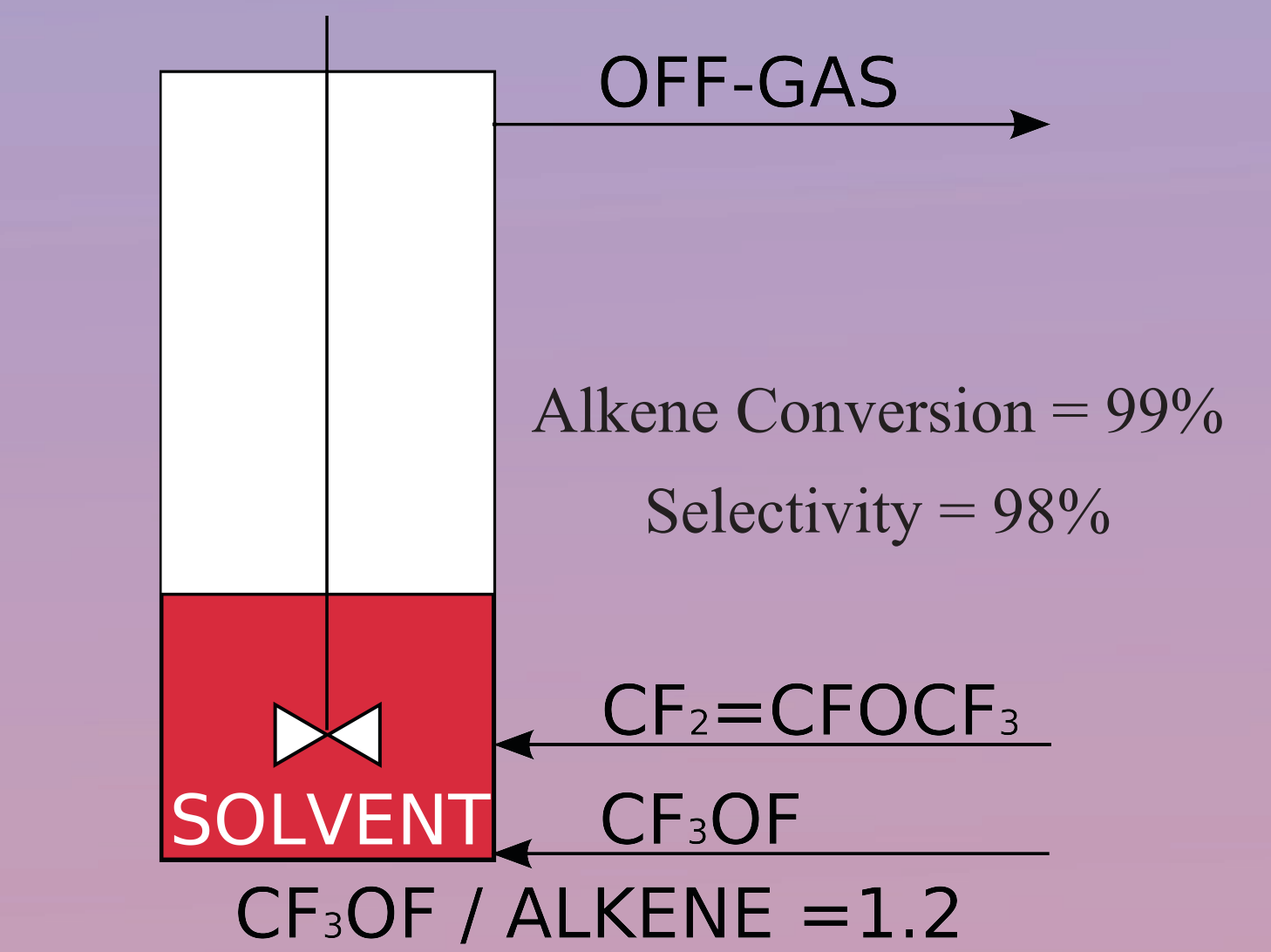
Standard Direct Addition



Generic Reaction Scheme



Novel Reverse Reaction

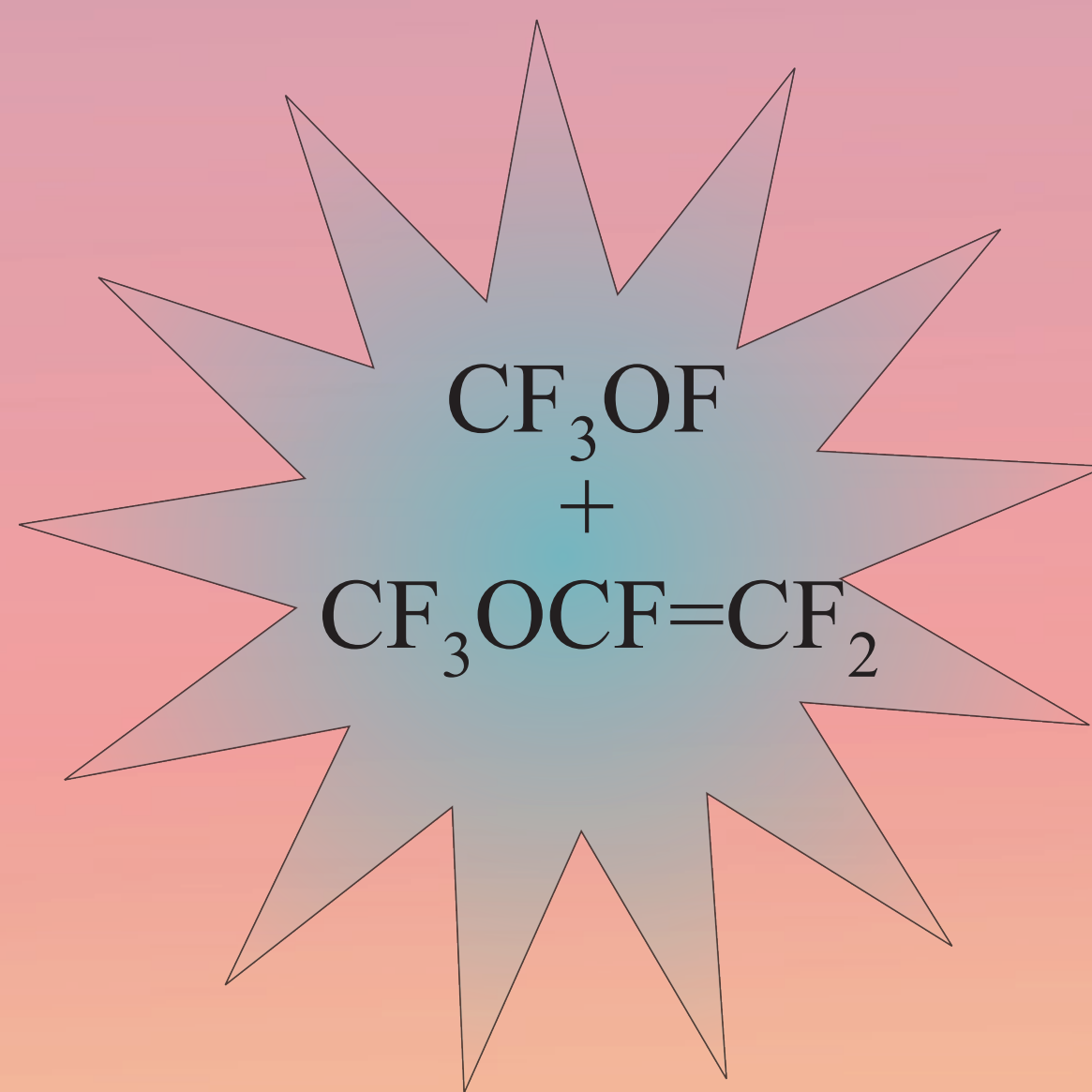
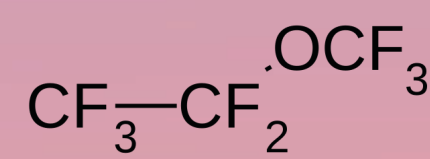
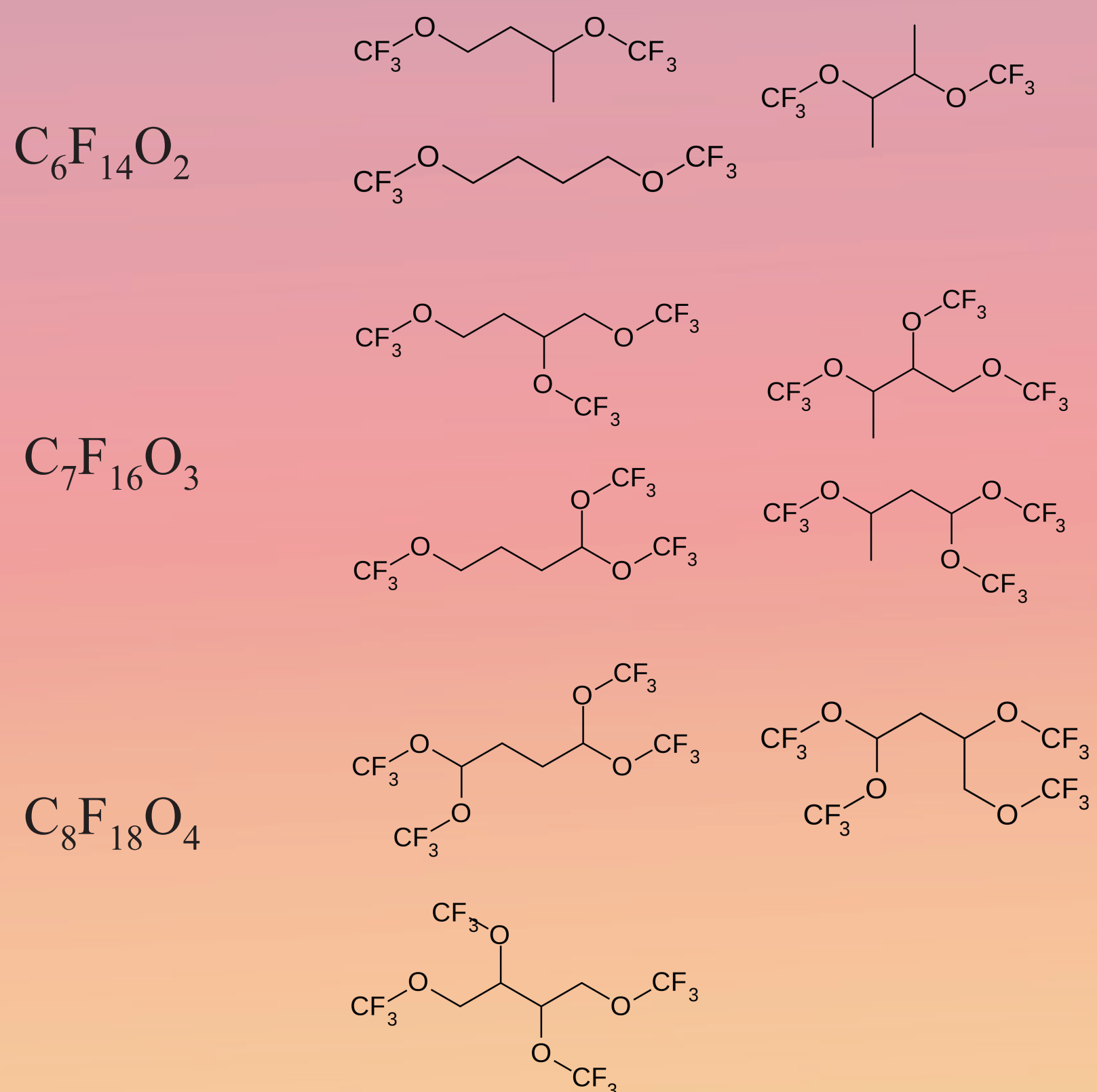


$$\frac{d}{dt} [=] \approx -k_4 \sqrt{\frac{k_{11}}{k_{T8}}} \sqrt{[\text{R}_F\text{OF}]^3} \sqrt{[=]}$$

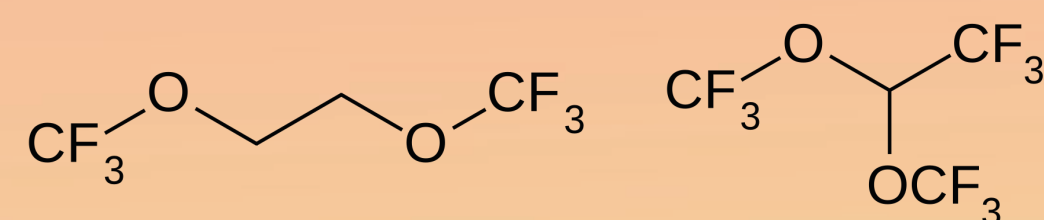
$$\frac{d}{dt} [=] \approx -k_3 \sqrt{\frac{k_{11}}{k_{T6}}} \sqrt{[\text{R}_F\text{OF}]} \sqrt{[=]^3}$$

Initiation Product $\text{C}_3\text{F}_8\text{O}$

Direct Addition Termination Products



Main Products $\text{C}_4\text{F}_{10}\text{O}_2$



Reverse addition Termination Product $\text{C}_2\text{F}_6\text{O}_2$

