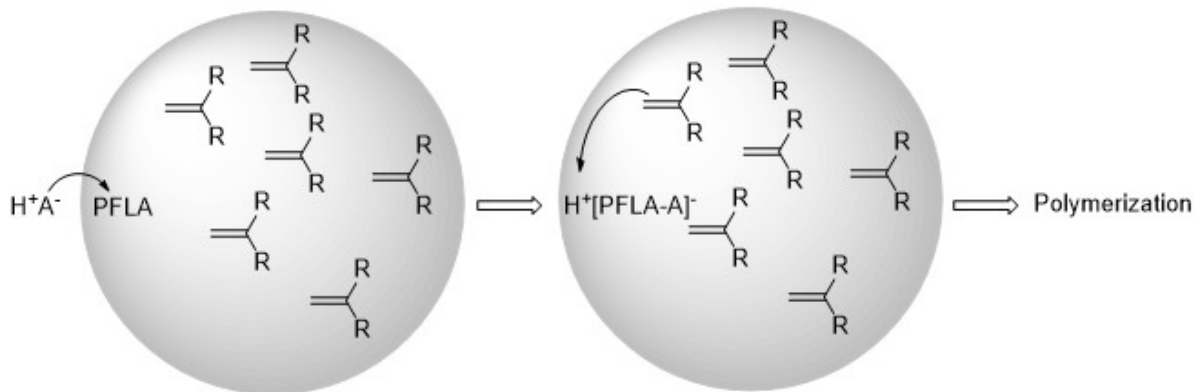


Scheme 1



Here the PFLA drags H^+A^- into the organic phase by binding A^- to form a larger anion that is weakly coordinating. $H^+[PFLA-A]^-$ is the same as H^+WCA^- (i.e., superacid).

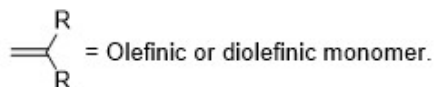
H^+A^- = Brønsted acid.

PFLA = Perfluoroarylated Lewis acid.

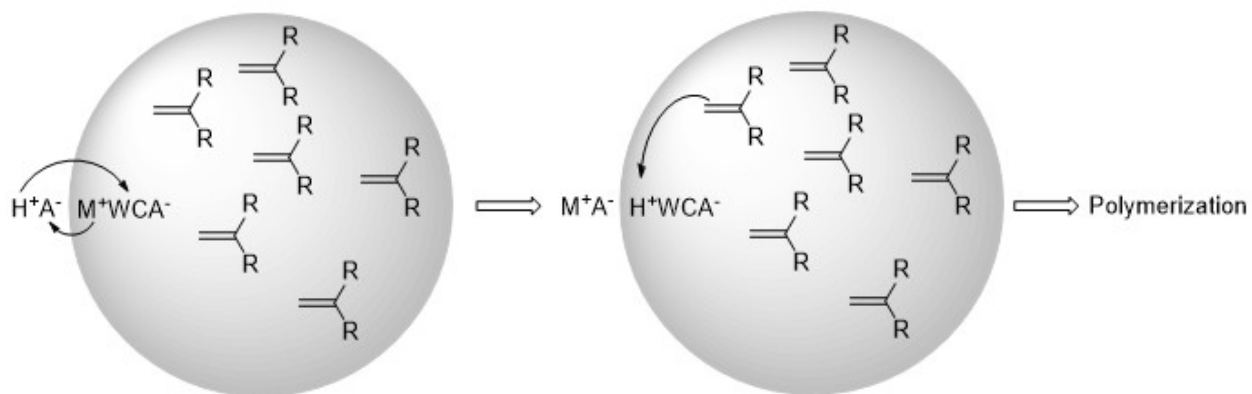
WCA^- = Weakly coordinating anion.

M^+WCA^- = Salt containing weakly coordinating anion.

H^+WCA^- = Hydrophobic superacid.



R = H, organo, etc.



In this instance there is exchange of cations and this ultimately leads to the generation of superacid inside the monomer droplet.