



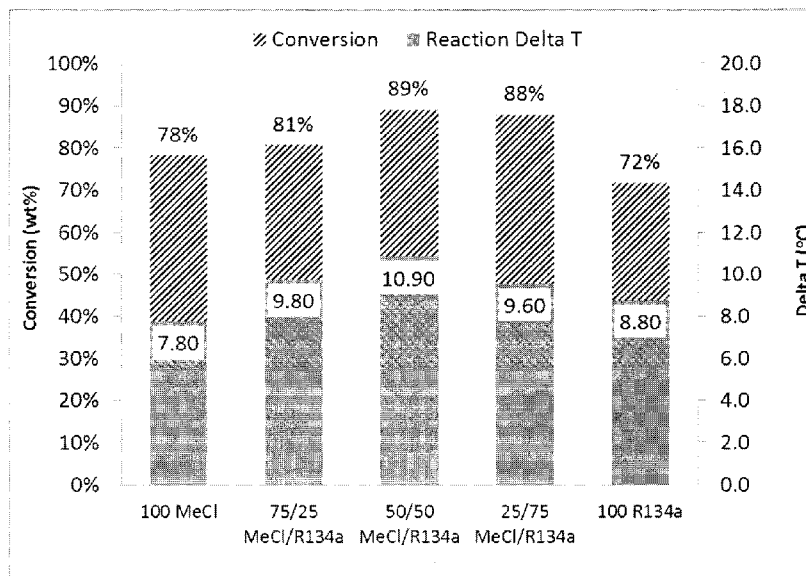
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(54) **Title:** DILUENT FOR THE PRODUCTION OF BUTYL RUBBER**Fig 1**

(57) **Abstract:** Methods are provided to efficiently produce butyl rubber via a slurry polymerization process. The process comprises providing at least two monomers, wherein at least one monomer is an isoolefin and at least one monomer is a multiolefin. The monomers are combined with an initiator and an organic diluent comprising 40-60 volume % of methyl chloride and 40-60 volume % of 1,1,1, 2-tetrafluoroethane and polymerized.