

## Facilitated Transport Membranes containing Zwitterionic Silver Complex for Separation of Olefin/Paraffin

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Olefin/paraffin separation is the most costly separation in the petrochemical industry. Recently, facilitated transport membranes in which silver salts are used as carriers has attracted much interest because of the high selectivity and the low energy consumption. The facilitated membranes consisting of zwitterionic silver complexes and polymer supports were prepared and tested for the separation of olefin/paraffin mixtures. The selectivity and the flux of the composite membrane was found to be affected by the types of silver salts and zwitterion compounds.