

PEP Review 2012-05
PROPYLENE PRODUCTION BY THE JGC/MCC DTP™ PROCESS
By
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ABSTRACT

Product flexibility, low capital investment, and energy efficiency of larger capacity plants will shape the future of the light olefins industry. With propylene demand growing faster than ethylene, combined with the building of more ethane crackers, on-purpose processes are becoming more significant in the supply of propylene.

This review evaluates an IHS Chemical design for on-purpose propylene production from methanol based on the DTP™ Process, jointly developed by JGC Corporation and Mitsubishi Chemicals.

A description of the DTP™ Process is provided along with an economic analysis, which is based upon a conceptual plant capable of producing 1,100 million lb/yr or 500,000 metric tons per year of polymer-grade propylene from methanol. The estimated total fixed capital investment for such a plant at a US Gulf Coast location and the estimated net production cost for polymer-grade propylene are presented in this PEP review.



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THE JGC/MCC DTP™ PROCESS**

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Santa Clara, California 95054



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