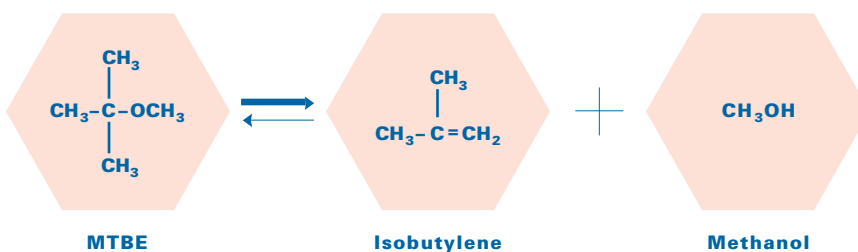


Process Chemistry

Decomposition



Advantages

CDIB process offers:

Simple and effective control

Long catalyst life

High MTBE conversion

High isobutylene selectivity

High flexibility

Low capital cost

High purity isobutylene

No waste treatment requirements

No corrosion problems

Significant operating experience

MTBE integration offers:

Reduced capital cost

Reduced operating costs

Typical Overall Material Balance MTBE conversion percent: 88

Feeds	Kg/HR
MTBE (97% purity)	27,625
Products	
Isobutylene	16,875
Methanol	9,679
Purge and vents	1,071

Isobutylene Product Composition

	Wt. %
Isobutylene	99.75 min.
Butadiene	100 ppm max.
Butenes	1,000 ppm max.
TBA	10 ppm max.
DME	10 ppm max.
Water	10 ppm max.
Methanol	10 ppm max.
Total	100.0

Methanol Product Composition

	Wt. %
Methanol	99.85 min.
Water	500 ppm max.
MTBE	500 ppm max.
MSBE	500 ppm max.
TAA	500 ppm max.
Total	100.0

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