The BenzOUT™ process is a commercially proven technology for benzene reduction in gasoline. BenzOUT converts benzene, typically in a light reformate stream, to higher alkylaromatic blending components by reacting a benzene rich stream with light olefins, such as a refinery grade propylene stream. BenzOUT technology avoids octane loss with no hydrogen consumption associated with benzene saturation alternatives by alkylating propylene to the aromatic rich stream. BenzOUT can be a grassroots unit or retrofitted into an existing facility, such as a polygas unit. The technology was developed by ExxonMobil and is available for licensing through TechnipFMC Badger Process Technology to provide a unique process advantage to help refiners meet benzene regulations, while at the same time achieving an attractive economic return on their investment.
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