Upgrading light olefins and isobutene to alkylate offers refiners an opportunity to increase their crude barrel value. Alkyate is a superior gasoline blendstock due to its high octane and low vapor pressure. ExxonMobil’s proven Sulfuric Acid Alkylation technology reacts propylene, butylene and pentylene with iso-butane to form high value alkylate for gasoline blending.

**Advantages**

- ExxonMobil’s experience in inventing, designing and operating the technology
- High reliability in line with FCC cycles
- Less major equipment
- Up to 10 KBD reactor capacity produces economies of scale
- No proprietary equipment
- Direct vaporization of C3 results in energy savings
- Multiple mixing zones in the reactor increases reliability
- Over 50 years of ExxonMobil and licensee operating experience from 2 to 100 KBD
- Flexibility in partnering with multiple sulfuric acid regeneration technologies