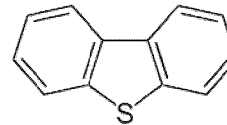


Desulfurization of Residual Fuel Oil (RFO) Using Solvent Extraction Route

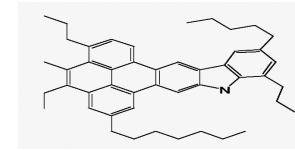
Residual Fuel Oil (RFO) is a blend of almost all heavy ends of refinery streams



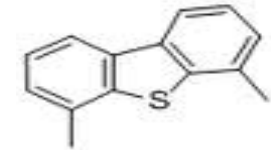
RFO contains total Sulfur (3.0 - 5.5%)



DBT



Asphaltene



4,6 DMDBT

- Environmental regulations driving sulfur content in RFO less than 1%
- Conventional hydrodesulphurization(HDS) requires high capital and operating costs

RFO



LSFO

- Innovative non-hydrodesulphurization route such as oxidative desulfurization and microwave / ultrasound assisted oxidative desulfurization
- Quantitative reduction in sulfur of RFO is observed with various solvents