

Supplementary Information

Table 1A.S. Gas chromatography parameters used in this study

Component	Parameter	Value
Injector	Temperature (°C)	300
	Split ratio	100 : 1
	Injection volume (μL)	0.2
FID	Initial temperature (°C)	35
	Detector temperature (°C)	350
	Holding time (min)	5
Oven	Temperature 1 (°C)	280
	Heating rate 1 (°C/min)	10
	Holding time 1 (min)	3.5
	Temperature 2 (°C)	325
	Heating rate 2 (°C/min)	10
	Holding time 2 (min)	90

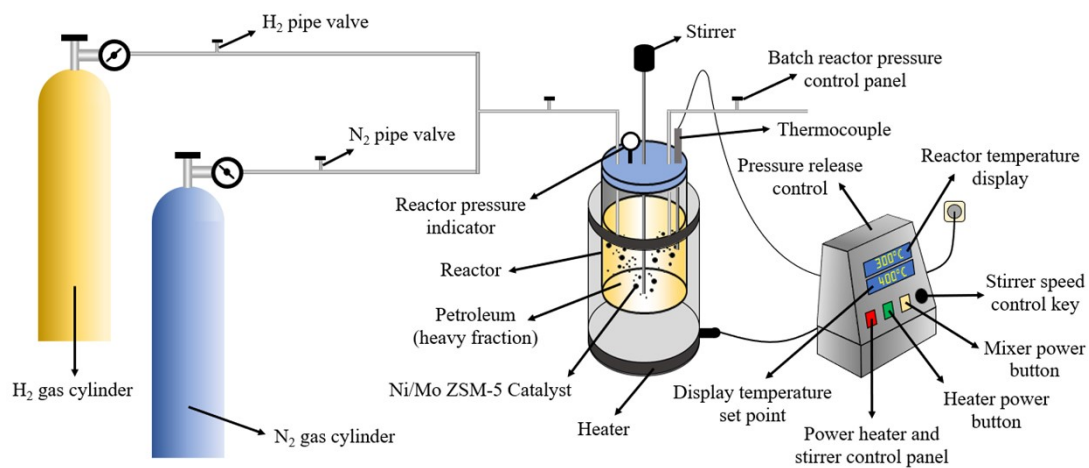


Figure 1A.S. Catalytic hydrocracking process equipment