



#3501

Experimental Evaluation of Chemical Reactions

CHEMICAL REACTION ENGINEERING AND CATALYST
EVALUATION

DESCRIPTION

Experimental studies regarding chemical reactions and processes involving chemical reactions. Our capabilities include catalytic and homogeneous reactions; gas phase, liquid phase and gas/liquid reactions; activity, selectivity and stability of catalysts; catalyst deactivation; sensitivity analysis; study and optimization of operating conditions (temperature, pressure, residence time, inhibitors effect), estimation of life-time of catalysts.

AVAILABLE EQUIPMENT

- Berty catalytic reactor ($T_{\max}=550^{\circ}\text{C}$, $P_{\max}=200$ bar).
- Automatized batch reactor (glass, $V=4\text{L}$).
- SS batch reactors ($V=1\text{ L}$ y $V=0.6\text{ L}$, $P_{\max}=30$ bar).
- Pilot-scale batch reactors (SS-glass, $T_{\max}=200^{\circ}\text{C}$, $P_{\max}=10$ bar / SS, $T_{\max}=250^{\circ}\text{C}$, $P_{\max}=10$ bar).
- High pressure trickle bed reactor ($T_{\max}=250^{\circ}\text{C}$, $P_{\max}=50$ bar).
- SS catalytic tubular reactor ($T_{\max}=250^{\circ}\text{C}$, $P_{\max}=50$ bar).

APPLICATIONS

Petrochemical/Chemical/Food/Polymer/Pharma/Materials/I+D

CONTACT US

Office of Technology Transfer

✉ ott@plapiqui.edu.ar

🌐 plapiqui.edu.ar/ott

☎ +54 291 4037200 - Int 217/214

📱 +54 9 291 4261644