Ignition Delay Sensitivity, 40 atm, 689 K ic5ketdbch3coch3+ch2cho+oh ic5h9oh-4ooh-1+o2⇔ic5h9oh-4ooh-1o2 ∟ch2o+oh⇔hco+h2o ic5h10oh-4o2⇔ic5h9oh-4ooh-2 ic5h9oh-3ooh-1+o2⇔ic5h9oh-3ooh-1o2 $\phi = 0.5$ ic5h10oh-3o2 (RO₂)⇔ic5h9oh-3ooh-1 (QOOH) $\phi = 1.0$ Lic5h10oh-3o2tc4h8o2h-i+ch2o $\phi = 2.0$ ic5h11oh+ho2⇔γ-hydroxypentyl+h2o2 2ho2⇔h2o2+o2 ic5h11oh+oh⇔δ-hydroxypentyl+h2o ic5h11oh+ho2 $\Leftrightarrow \alpha$ -hydroxypentyl+h2o2 α -hydroxypentyl+o2 \Leftrightarrow ic5h10oh-1o2 (RO₂) ic5h11oh+oh⇔γ-hydroxypentyl+h2o α-hydroxypentyl+o2⇔iso-pentanal+ho2 ic5h11oh+oh⇔α-hydroxypentyl+h2o -80-4040 80 120 160 -120Percent Sensitivity, %