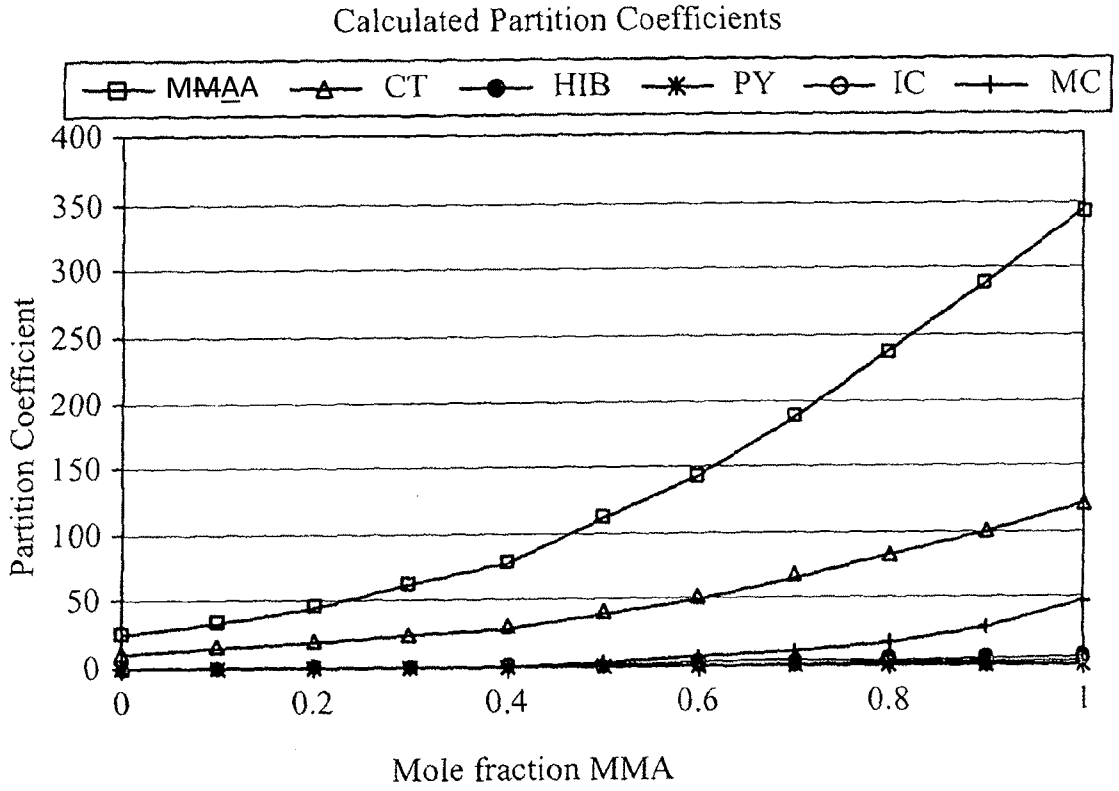

Calculated Partition Coefficients
MMAA
CT
HIB
PY
IC
MC
Partition Coefficient
400
350
300
250
200
150
100
50
0
0
0.2
0.4
0.6
0.8
1
Mole fraction MMA

FIG. 2

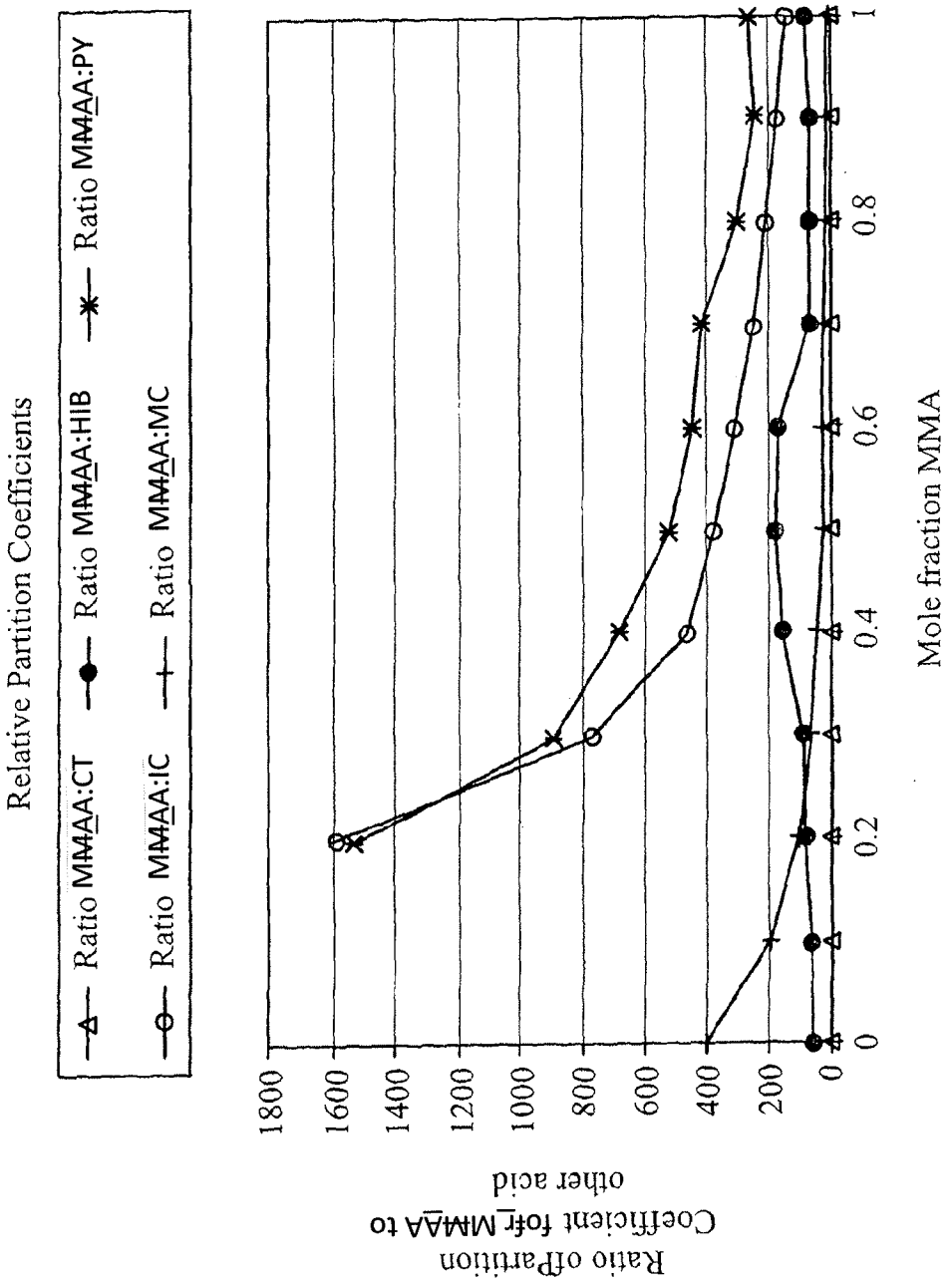

Relative Partition Coefficients
Ratio MMAA:CT
Ratio MMAA:HIB
Ratio MMAA:PY
Ratio MMAA:IC
Ratio MMAA:MC
Ratio ofPartition
Coefficient forMMAA to
other acid
1800
1600
1400
1200
1000
800
600
400
200
0
0
0.2
0.4
0.6
0.8
1
Mole fraction MMA

FIG. 3

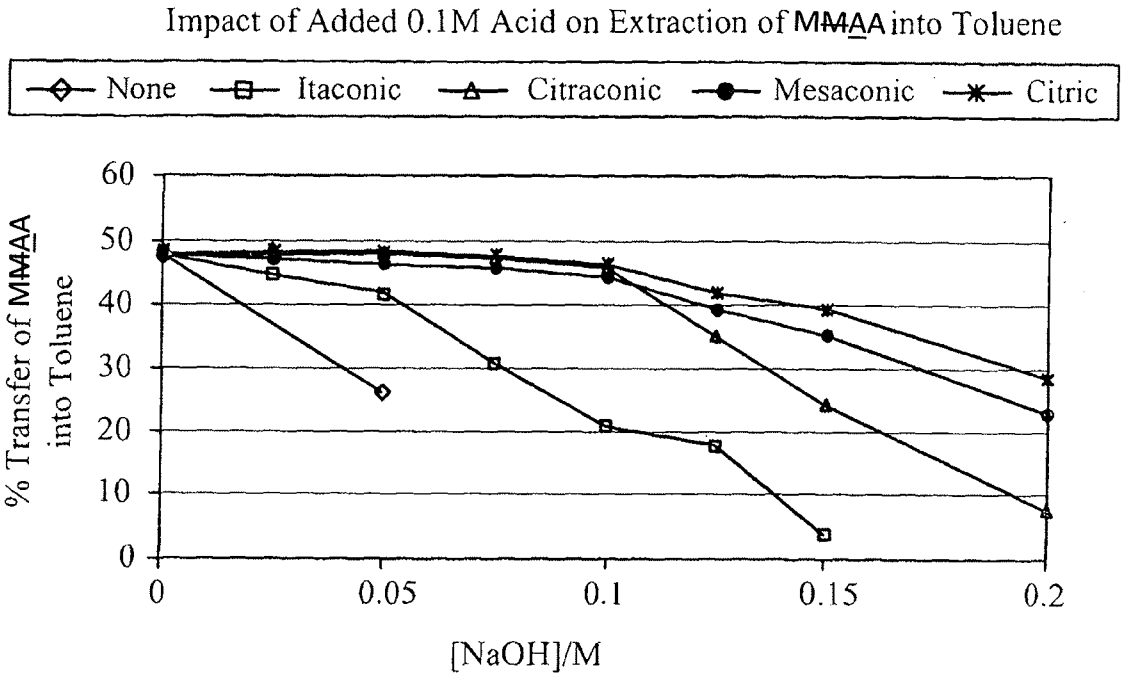

Impact of Added 0.1M Acid on Extraction of MMAA into Toluene
None
Itaconic
Citraconic
Mesaconic
Citric
% Transfer of MMAA into Toluene
60
50
40
30
20
10
0
0
0.05
0.1
0.15
0.2
[NaOH]/M

FIG. 4