

CLICK ON THE UNDERLINED BLUE TEXT FOR DETAILS ON THE PRODUCTS USED IN THIS APPLICATION

TEST CONDITIONS

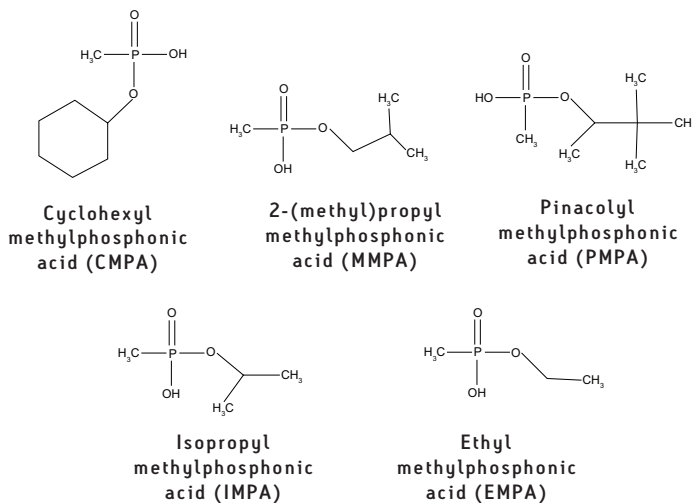
Chromatographic Conditions

Columns: ACQUITY UPLC® BEH Amide,
2.1 x 100 mm, 1.7 µm
Part Number: [186004801](#)
Isocratic Mobile Phase: 90/10 MeCN/H₂O with 10 mM
CH₃COONH₄ and 0.04% NH₄OH,
pH 9.0
Flow Rate: 0.5 mL/min
Injection Volume: 5.0 µL (PLNO)
Sample Concentration: 2 µg/mL each
Sample Diluent: 75/25 MeCN/MeOH
Column Temperature: 65 °C
Weak Needle Wash: 95/5 MeCN/H₂O
Instrument: Waters ACQUITY UPLC with
ACQUITY SQD

Mass Spectrometer Settings

Ionization Mode: ES⁻
Capillary: 2.5 KV
Cone: 30 V (EMPA, IMPA, PMPA);
40 V (CMPA); 35 V (MMPA)
Source Temperature: 120 °C
Desolvation Temperature: 400 °C
Desolvation Gas Flow: 800 L/Hr
Cone: 5 L/Hr
SIR m/z: 122.9 (EMPA); 136.95 (IMPA);
179.0 (PMPA); 177.0 (CMPA);
150.95 (MMPA)
Dwell Time: 0.1 s

STRUCTURES



COMPOUNDS

1. Pinacolyl methylphosphonic acid (PMPA)
2. 2-(methyl)propyl methylphosphonic acid (MMPA)
3. Cyclohexyl methylphosphonic acid (CMPA)
4. Isopropyl methylphosphonic acid (IMPA)
5. Ethyl methylphosphonic acid (EMPA)

