



Melting Point: Mp 163-165°

>>**Derivative:** Di-Me ester

Synonym(s): Dimethyl (3-methyloxiranyl)phosphonate

CAS Registry Number: 25484-41-7

Molecular Formula: C₅H₁₁O₄P

Molecular Weight: 166.113

Accurate Mass: 166.039497

Percentage Composition: C 36.15%; H 6.67%; O 38.53%; P 18.65%

Physical Description: Liq.

Boiling Point: Bp₂ 55-56°

Optical Rotation: [α]_D +6.11 (c, 4.33 in MeOH)

>>**Derivative:** Compd. with 2-amino-2-(hydroxymethyl)-1,3-propanediol

Synonym(s): Fosfomycin tromethamine. Fosfomycin tromethamol. Monuril

CAS Registry Number: 78964-85-9

Development Status: Approved by FDA (1996)

>>**Variant:** (2*S*,3*R*)-form

Synonym(s): (+)-*cis*-form

CAS Registry Number: 26017-03-8

Molecular Formula: C₃H₇O₄P

Molecular Weight: 138.06

Accurate Mass: 138.008197

Percentage Composition: C 26.10%; H 5.11%; O 46.36%; P 22.44%

>>**Derivative:** Mono(-)- α -phenylethylamine salt

CAS Registry Number: 26016-89-7

Physical Description: Cryst. (MeOH)

Melting Point: Mp 125-126°

Optical Rotation: [α]_D²⁰ -19.4 (DMF)

>>**Derivative:** Di-Me ester

CAS Registry Number: 25460-63-3

Physical Description: Liq.

Optical Rotation: [α]_D -6 (c, 2.75 in MeOH)

>>**Variant:** (2*RS*,3*SR*)-form

Synonym(s): ($\pm$)-*cis*-form

Molecular Formula: C₃H₇O₄P

Molecular Weight: 138.06

Accurate Mass: 138.008197

Percentage Composition: C 26.10%; H 5.11%; O 46.36%; P 22.44%

>>**Derivative:** Mono(benzylammonium) salt

CAS Registry Number: 25489-13-8

Physical Description: Cryst. (EtOH)

Melting Point: Mp 155-157° (152-155°)

>>**Derivative:** Bis(ethylammonium) salt

Physical Description: Cryst. (EtOH)

Melting Point: Mp 154-156°

>>**Derivative:** Dipiperazine salt