



Optical Rotation: $[\alpha]_D^{25} +238$

Solubility: Sol. H₂O

Other Data: Deriv. with good org. solv. solubility, useful for isol.

>>>**Derivative:** Benzyl(phenethyl)ammonium salt (1:1)

Synonym(s): Benethamine penicillin, BAN, INN. Propen. Triplopen

CAS Registry Number: 751-84-8

Biological Use/Importance: Antibiotic

Melting Point: Mp 146-147°

Hazard & Toxicity: LD₅₀ (rat, ivn) 122 mg/kg

>>>**Derivative:** *N,N'*-Dibenzylethylenediammonium salt (2:1)

Synonym(s): Benzathine penicillin, BAN. Benzathine benzylpenicillin, INN. Penicillin G benzathine, USAN. Benzylpenicillin benzathine, JAN. Benzetacil. Benzethacil. Bicillin. Permapen. Benzacillin. Debecillin. Extencilline

CAS Registry Number: 1538-09-6

Physical Description: Cryst. + H₂O

Melting Point: Mp 123-124°

Optical Rotation: $[\alpha]_D^{25} +206$ (formamide)

Hazard & Toxicity: LD₅₀ (mus, orl) 2000 mg/kg. Exp. reprod. effects

Sigma: B2257

>>>**Derivative:** 2,5-Diphenylpiperazine salt

Synonym(s): Phenyracillin, INN. Fenypracilline

CAS Registry Number: 7009-88-3

Melting Point: Mp 219°

Optical Rotation: $[\alpha]_D +212$ (*N*-methylformamide)

Hazard & Toxicity: LD₅₀ (mus, ipr) 450 mg/kg

>>>**Derivative:** *N,N*-Bis(dehydroabietyl)ethylenediamine salt (2:1)

Synonym(s): Hydrabamine penicillin. Compocillin

CAS Registry Number: 3344-16-9

Biological Use/Importance: Antibiotic

Physical Description: Cryst. (MeOH aq.)

Optical Rotation: $[\alpha]_D^{25} +115.3$ (c, 10 in CHCl₃)

Other Data: Dec. at 171-173°

>>>**Derivative:** 1,1-Diphenylmethylaniline salt (1:1)

Synonym(s): Benzhydrylamine penicillin. Orencil. Penidryl

CAS Registry Number: 1538-11-0

Biological Use/Importance: Antibiotic

Physical Description: Cryst. (Me₂CO aq.)

Melting Point: Mp 159°

Optical Rotation: $[\alpha]_D^{20} +206$ (c, 1 in H₂O)

Hazard & Toxicity: LD₅₀ (rat, ipr) 200 mg/kg

>>>**Derivative:** Me ester

Physical Description: Needles (EtOAc/hexane)

Melting Point: Mp 97-98°

Optical Rotation: $[\alpha]_D +286$ (CHCl₃)

>>>**Derivative:** Benzyl ester

Physical Description: Oil

Optical Rotation: $[\alpha]$