Optical Rotation: $[\alpha]_D^{25}$+238
Solubility: Sol. H_2O
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: LD_{50} (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. + H_2O
Melting Point: Mp 123-124°
Optical Rotation: $[\alpha]_D^{25}$+206 (formamide)
Hazard & Toxicity: LD_{50} (mus, orl) 2000 mg/kg. Exp. reprod. effects

Sigma: B2257

>>**Derivative:** 2,5-Diphenylpiperazine salt
Synonym(s): Phenyracillin, INN**.** Fenyracilline

CAS Registry Number: 7009-88-3

Melting Point: Mp 219°
Optical Rotation: $[\alpha]_D$ +212 (*N*-methylformamide)
Hazard & Toxicity: LD_{50} (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 $CHCl_3$)
Other Data: Dec. at 171-173°

>>**Derivative:** 1,1-Diphenylmethylamine salt (1:1)
Synonym(s): Benzhydrylamine penicillin. Orencil. Penidryl

CAS Registry Number: 1538-11-0

Biological Use/Importance: Antibiotic
Physical Description: Cryst. (Me_2CO aq.)
Melting Point: Mp 159°
Optical Rotation: $[\alpha]_D^{20}$+206 (c, 1 in H_2O)
Hazard & Toxicity: LD_{50} (rat, ipr) 200 mg/kg

>>**Derivative:** Me ester

Physical Description: Needles (EtOAc/hexane)
Melting Point: Mp 97-98°
Optical Rotation: $[\alpha]_D$ +286 ($CHCl_3$)

>>**Derivative:** Benzyl ester

Physical Description: Oil
Optical Rotation: $[\alpha]$