

Saponification value 130–140 for *Schercemol* IDO ester.

Solubility Soluble in isopropyl myristate, peanut oil, mineral oil, ethanol (95%), and oleyl alcohol; insoluble in water, glycerin, and propylene glycol.

Specific gravity 0.850–0.890 for *Schercemol* IDO ester.

Safety Nonirritating to eyes; mildly irritating to skin. LD₅₀ (rat, oral): > 40 mL/kg.⁽¹⁰⁾

Comments Used as an emollient and solvent for pharmaceutical topical formulations. Also used in cosmetic products. The PubChem Compound ID (CID) for isodecyl oleate is 6436737. The EINECS number for isodecyl oleate is 261-673-6.

18 Comments

A specification for decyl oleate is included in the *Japanese Pharmaceutical Excipients (JPE)*.⁽¹²⁾

The EINECS number for decyl oleate is 222-981-6. The PubChem Compound ID (CID) for decyl oleate is 5363234.

19 Specific References

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20 General References

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21 Authors

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22 Date of Revision

4 May 2017.

Denatonium Benzoate

1 Nonproprietary Names

USP–NF: Denatonium Benzoate

2 Synonyms

Bitrex; *Bitterguard*; denatonii benzoas; *N*-[2-(2,6-dimethylphenyl)amino]-2-oxoethyl]-*N,N*-diethylbenzenemethanaminium benzoate; lignocaine benzyl benzoate.

3 Chemical Name and CAS Registry Number

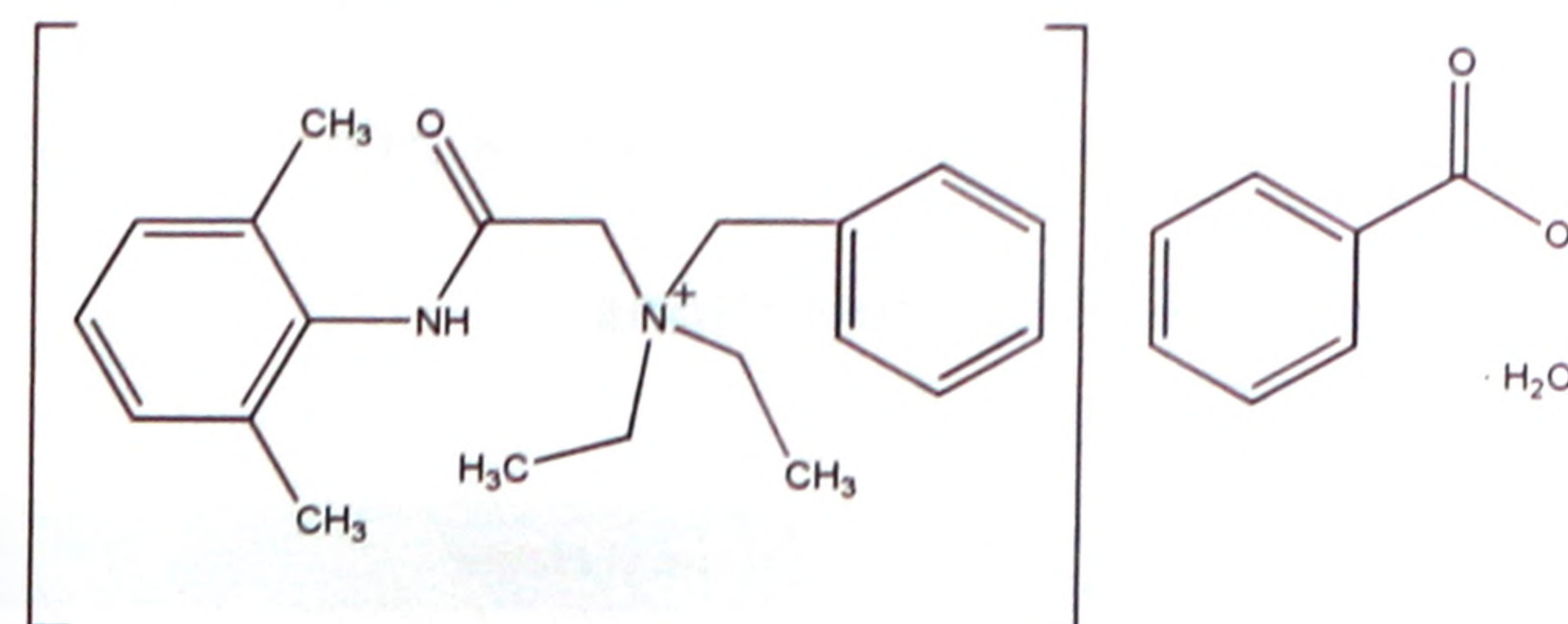
Benzyl-diethyl[(2,6-xylyl-carbamoyl)methyl]ammonium benzoate anhydrous [3734-33-6]

Benzyl-diethyl[(2,6-xylyl-carbamoyl)methyl]ammonium benzoate monohydrate [86398-53-0]

4 Empirical Formula and Molecular Weight

C₂₈H₃₄N₂O₃ 446.59 (for anhydrous)
C₂₈H₃₄N₂O₃·H₂O 464.60 (for monohydrate)

5 Structural Formula



6 Functional Category

Alcohol denaturant; flavoring agent.

7 Applications in Pharmaceutical Formulation or Technology

Denatonium benzoate is among the most bitter of substances known and is detectable at concentrations of approximately 10 ppb. In pharmaceutical and other industrial applications it is added to