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DATASHEET

2-Hydroxypropyl-β-cyclodextrin

Product overview

| | |
|-------------------------------|---|
| Name | 2-Hydroxypropyl-β-cyclodextrin |
| Cat No | HB4927 |
| Biological description | This is a modified cyclodextrin which is commonly used as a solubilization agent. Compound solubility in water is enhanced when complexing with HBC (2-Hydroxypropyl-β-cyclodextrin). |
| Description | Solubilization agent |

Solubility & Handling

| | |
|-----------------------------|--|
| Storage instructions | Room temperature |
| Solubility overview | Soluble in water (100 mM) |
| Important | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use |

Chemical Data

| | |
|---------------------------|---|
| Chemical name | 2-Hydroxypropyl-β-cyclodextrin |
| Molecular Weight | 1400 |
| Molecular Formula | C ₅₄ H ₁₀₂ O ₃₉ |
| CAS Number | 128446-35-5 |
| PubChem identifier | 44134771 |
| SMILES | CCCCO.CCCO.CCCO.CCCO.C(C1C2C(C(C(O1)OC3C(OC(C(C3O)OC4C(OC(C(C4O)O)OC5C(O)C(C(C5O)O)OC6C(OC(C(C6O)O)OC7C(OC(C(C7O)O)OC8C(OC(O2)C(C8O)O)CO)CO)CO)CO)CO)O)O)O |
| InChi | InChi=1S/C42H70O35.4C3H8O/c43-1-8-29-15(50)22(57)36(64-8)72-30-9(2-44)66-38(24(59)17(30)52)74-32-11(4-46)68-40(26(61)19(32)54)76-34-13(6-48)70-42(28(63)21(34)56)77-35-14(7-49)69-41(27(62)20(35)55)75-33-12(5-47)67-39(25(60)18(33)53)73-31-10(3-45)65-37(71-2 |
| InChiKey | BZRWCHBEBFPRGF-UHFFFAOYSA-N |
| MDL number | MFCD16621721 |

References

The effects of cyclodextrins on the disposition of intravenously injected drugs in the rat.

Frijlink et al (1991) Pharm Res 8(3)

PubMedID [2052529](#)

Solubility of Cyclodextrins and Drug/Cyclodextrin Complexes

Saokham P *et al* (2018) Molecules 23

PubMedID [29751694](#)