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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)O)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)C O)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](#)

