

**β-Cyclodextrin 2-hydroxypropyl ether (HP-β-CD), EP, USP/NF**

Synonyms: 2-Hydroxypropyl-β-cyclodextrin, Hydroxypropylbetadex

- CAS No: 128446-35-5, 940035-02-6, 136019-12-0
- Average molecular formula: C<sub>42</sub>H<sub>70</sub>O<sub>35</sub> (C<sub>3</sub>H<sub>6</sub>O)<sub>x</sub>, x=7·MS
- Average formula weight: -

TEST	SPECIFICATION	TEST	SPECIFICATION
Appearance	white or almost white, amorphous or crystalline powder	Assay—Molar substitution (MS)	0.40 - 1.50
Solubility	freely soluble in water and in propylene glycol	Loss on drying	max. 10.0%
Identification		Residual solvents	limits according to EP, USP/NF, ICH Q3C
IR	has to confirm with reference material	Microbiological analysis: TAMC, TYMC, specific microorganisms, BET, sterility (USP/NF)	tests and limits may vary depending on the use of the material
Clarity of solution	Clear and colourless	Storage conditions	in an airtight container
Conductivity	max. 200µS·cm <sup>-1</sup> (10% w/v in CO <sub>2</sub> –free water)		
β-CD content	max. 1.5%		
Propylene glycol	max. 2.5%		
Propylene oxide	NMT 0.0001% (USP/NF)		
Other single impurity	max. 0.25% (USP/NF)		
Sum of other impurities	max. 1%		

**Examples of API formulations containing HP-β-CD, currently on the market\***: Aripiprazole, Cisapride, Hydrocortisone, Indomethacin, Levosimendan, Mitomycin, Posaconazole (POS) and Florfenicol (veterinary drug)