

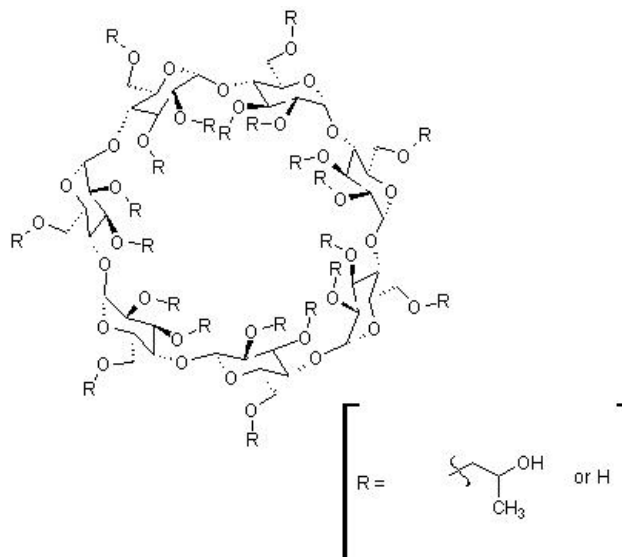
Product datasheet

2-Hydroxypropyl-beta-cyclodextrin, modified cyclodextrin ab145002

1 References

Overview

Product name	2-Hydroxypropyl-beta-cyclodextrin, modified cyclodextrin
Description	Widely used modified cyclodextrin.
Biological description	Cyclic oligosaccharide containing seven D-(+)-glucopyranose units that is widely used to improve the aqueous solubility of various compounds, especially those containing a phenyl group. The circular arrangement of its glucose units produces a torus-shaped ring configuration in which the CH ₂ groups and ether linkages of the molecule face the hollow interior, resulting in a nonpolar, hydrophobic cavity and a polar, hydrophilic exterior. When combined in solution with other compounds, the nonpolar aromatic portions of that compound interact with the nonpolar interior of the HP-β-CD molecule, thus isolating the aromatic portion of the molecule from the water and thereby increasing its aqueous solubility.
Purity	> 95%
CAS Number	128446-35-5
Chemical structure	



Properties

Chemical name	2-Hydroxypropyl-β-cyclodextrin
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Molecular formula	$(C_6H_9O_5)_7(C_3H_7O)_n$
Storage instructions	Store at +4°C. The product can be stored for up to 12 months.
Solubility overview	Water
Handling	<p>Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
Source	Synthetic

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