

Hydroxypropyl methyl cellulose(CAS No. 9004-65-3)

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Hydroxypropyl methyl cellulose C₃H₈O₂?xCH₄O?x (cas 9004-65-3) Molecular Structure

9004-65-3 Structure

Identification and Related Records

【Name】

Hydroxypropyl methyl cellulose

【CAS Registry number】

9004-65-3

【Synonyms】

Hypromellose

Methocel 856N

MC 400

Metolose

Accel R 100

Marpolose 60MP5

(HYDROXYPROPYL)METHYL CELLULOSE

Hydroxy?Propyl?Methyl?Cellulose

HYDROXYPROPYLMETHYL CELLULOSE(HPMC)

HPMC-Industrial grade

Cellulose ether for PVC -Hydroxypropylmethylcellulose

2-HydroxyPropylMethylEther(Cellulos)

Methyl Hydroxy Propyl Cellulose

hydroxypropyl methyl cellulose(HPMC)

Hydroxypropylmethylcellulose
Hydroxypropyl methyl cellulose (HPMC)
HYDROXYPROPYL METHYLCELLULOSE
HPMC (Hydroxypropyl Methyl cellulose)
Hydroxypropyl Methyl Cellulose

HYDROXY PROPYL METHYL CELLULOSE??? (HPMC)

Hydroxy propyl methyl cellulose
Hydroxymethyl propyl cellulose
Hydroxypropyl Methyl Cellulose(HPMC or MHPC)
2-Hydroxypropyl methyl cellulose
Marpolose MP 4000
Synchron-Oral
Methylhydroxypropylcellulosum
Hypromellosum [Latin]
Methocel MK 4
Isopto Frin
Culminal 20000PFR
Methofas PM
8063-82-9
137397-89-8
Hipromelosa [Spanish]
Cesca HPC 50
Marpolose EMP-H
Pharmacoat 645
Isopto Tears
HPMC(Hydroxypropyl methyl cellulose)
Hpmcd
Benecel MP 943W
71373-07-4

137397-91-2

171544-38-0

Estivin II

Methocel E, F, J, K

HPMC 20000PV

Methocel HG

Walocel MK 3.000PF

Methyl hydroxypropyl cellulose

Methocel F

DP 1209

Marpolose 90MP4000

Isopto alkaline

TC 5 (cellulose derivative)

Hydroxypropylmethylcellulosum

Marpolose 65MP400

Walocel MW 60GA

Methocel 228

Courlose HPM

Pharmacoat 606

65607-39-8

TC 5E

Methocel E,F,K

Tearisol

Carbohydrate gum

HPM 100DS

Hipromelosa [INN-Spanish]

125053-98-7

39363-71-8

Pharmacoat 603

Pharmacoat HPMC 615

Marpolose 90MP15000

Celacol HPM 5000

MOPTs

Celacol HPM 450

12673-53-9

Ultra Tears

137397-90-1

Methocel 240S

Marpolose 65MP4000

Cellulose,ethers,2-hydroxypropyl methyl ether

Benecel MP 363C

Isopto plain

Cellulose hydroxypropyl methyl ether

Methocel 20-231

Hydroxypropyl methylcellulose

Culminal MHPC

CELLULOSE, 2-HYDROXYPROPYL METHYL ETHER (R=CH₃
(CH₃)₂CH)

68073-10-9

Methocel 4FM-PRG

Cellulose, 2-hydroxypropyl methyl ether

Hydroxypropyl methylcellulose 1828

Synchron

EM 1100 (cellulose derivative)

TC 5R

11106-33-5

Tears Naturale

Methyl cellulose, propylene glycol ether

2-Hydroxypropyl cellulose methyl ether

Methocel K

Hypromellose [INN-Latin]

Metolose SH

DP 1208

Noigel 0215H

Methocel 20-333

Methocel 311

Viscontran MHPC 50

59029-31-1

HPMC

37341-76-7

Methocel 227

Methocel E

Benecel MP 943

Methocel 40-202

Methocel J

Goniosol

62683-26-5

Celacol HPM 15000DS

【EINECS(EC#)】

220-971-6

【Molecular Formula】

C₃H₈O₂?xCH₄O?x (Products with the same molecular formula)

【Molecular Weight】

318.233

【Inchi】

InChI=1/C36H70O19.C20H38O11/c1-19(37)9-45-17-27-29(47-11-21(3)39)31(48-12-22(4)40)34(51-15-25(7)43)36(54-27)55-30-28(18-46-10-20(2)38)53-35(52-16-26(8)44)33(50-14-24(6)42)32(30)49-13-23(5)41;1-21-9-11-13(23-3)15(24-4)18(27-7)20(30-11)31-14-12(10-22-2)29-19(28-8)17(26-6)16(14)25-5/h19-44H,9-18H2,1-8H3;11-20H,9-10H2,1-8H3/t19?,20?,21?,22?,23?,24?,25?,26?,27-,28-,29-,30-,31+,32+,33-,34-,35-,36+;11-,12-,13-,14-,15+,16+,17-,18-,19-,20+/m11/s1

【Canonical SMILES】

CC(COCC1C(C(C(C(O1)OC)OCC(C)O)OCC(C)O)OC2C(C(C(C(O2)COC)OC3C(C(C(C(O3)CO)OC)O)O)OC)OC)O

【MOL File】

9004-65-3.mol

Chemical and Physical Properties

【Appearance】

white to off-white powder

【Density】

1.39

【Melting Point】

1.39

【Boiling Point】

1101.5°C at 760 mmHg

【Flash Point】

619.9°C

【Water】

SOLUBLE

【Solubilities】

SOLUBLE

【Stability】

Stable. Solid is combustible, incompatible with strong oxidizing agents.

【Storage temp】

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

【Computed Properties】

Molecular Weight:748.8074 [g/mol]

Molecular Formula:C32H60O19

XLogP3-AA:-3.9

H-Bond Donor:6

H-Bond Acceptor:19

Rotatable Bond Count:21

Exact Mass:748.37288

MonoIsotopic Mass:748.37288

Topological Polar Surface Area:241

Heavy Atom Count:51

Formal Charge:0

Complexity:952

Isotope Atom Count:0

Defined Atom Stereocenter Count:0

Undefined Atom Stereocenter Count:18

Defined Bond Stereocenter Count:0

Undefined Bond Stereocenter Count:0

Covalently-Bonded Unit Count:1

Safety and Handling

【Safety Statements】

S24/25

Use and Manufacturing

【Usage】

Used as a emulsifier, film former, protective colloid, stabilizer, suspending agent, or thickener in foods.