

Hydroxyethyl Cellulose Synonyms

【Name】

Hydroxyethyl Cellulose

CAS Registry number】

9004-62-0

【Synonyms】

Fuji HEC-HP

Fuji HEC-AG 15

NATRO-SOL 250HR

NATROSOL 250MH

NATROSOL 250G

CELLOSIZES QP 30000

TYLOSE H SERIES

NATROSOL 180L

NATROSOL 300H

TYLOSE P-X

NATROSOL 250M

CELLOSIZES WP 4400

CELLOSIZES UT 40

NATROSOL 250H4R

Tylose H 20P

NATROSOL LR

TYLOSE MHB

NATROSOL 250HHP

HERCULES N 100

CELLOSIZES WP 300

TYLOSE P-Z SERIES

NATROSOL 250H

TYLOSE PS-X
Cellobond HEC 400
CELLOSIZ E QP
CELLOSIZ E QP 1500
NATRO-SOL 250
HYDROXYETHYL CELLULOSE ETHER
HESPAN
TYLOSE MHB-Y
NATROSOL 240JR
HYDROXYETHYL STARCH
CELLOSIZ E WP
CELLOSIZ E WP 300H
2-HYDROXYETHYL CELLULOSE ETHER
BL 15
CELLOSIZ E QP 4400
CELLOSIZ E QP3
TYLOSE MB
CELLULOSE HYDROXY-ETHYLATE
CELLOSIZ E WPO 9H17
CELLOSIZ E 4400H16
CELLULOSE HYDROXYETHYL ETHER
Hydroxyethyl Cellulose ()
Hydroxyl Ethyl Cellulose(HEC)
Hydroxyethyl Cellulose 100H (celocell 100h)
TYLOSE MH-XP
NATROSOL 250HX
Natrosol
Daicel EP 500
HEC-Unicel
HEC (Hydroxyethyl cellulose)

Cellosize

HEC-AI 5000

Fuji HEC-AL 15

HEC-Unicel QP 09L

also Cellulose,ethers,2-hydroxyethyl ether

Unicel QP 52000H

HEC-QP 4400

SP 250 (cellulose)

Hetastarch

Cellulose,ethers,2-hydroxyethyl ether

Glutofix 600

FL 52

Fuji HEC-AX 15F

Tylose H 300P

HEC-Unicel QP 300H

Tylose H 300

Daicel SP 550

Daicel SE 600

Unicel QP 15000

HEC-QP 100MH

HEC-QP 9H

OETs

Daicel EP 850

H. E. Cellulose

Cellobond 25T

Unicel QP 100MH

Tylose H 4000

polymer with oxirane

see

SE 850K
Tylomer H 20
Daicel SE 850K
Tylose H 30000YP
Unicel QP 4400
SP 407
Tylose H 100000
Daicel SP 200
Culminal HEC 5000PR
Tylopur H 300
Daicel SP 750
Sanhec
BL 15 (cellulose derivative)
Unicel QP 300H
Tylomer H 200
J 164
Tylose H 10
Tylose H 20
AH 15
Daicel SP 600
Daicel SE 900
HEC-Unicel QP 4400H
AX 15
Daicel SP 800
Fuji HEC-AW 15F
HEC-SE 850
HEC-A 5-25CF
Metolose 90SEW
AW 15 (polysaccharide)
Cellobond HEC 5000

HEC-QP 100M

Cellobond HEC 15A

Tylose H 15000YP2

Walocel HT 6.000PFV

2-Hydroxyethyl cellulose (Natrosol Type 250HRCS)

Fuji HEC-BL 20

Fuji HEC-SY 25F

Telhec

HEC-SP 200

HEC-AH 15

HEC-Unicel QP 30000H

polymer with cellulose

see

HEC 10A

Daicel SP 400

Admiral 3089FS

Fuji HEC-A 5000F

HEC-SP 400

Hydroxyethyl Methyl Cellulose (HEMC)

HYDROXYETHYL CELLULOSE (HEC)

Hydroxyethyl Starch(CAS No:9004-62-0)

Hydroxy Ethyl Cellulose

“Natrosol” [Aqualon]

HEC

2-HYDROXYETHYL CELLULOSE

NATROSOL 150L

TYLOSE MHB-YP

HYDROXYETHYL ETHER CELLULOSE

NATROSOL 250L

CELLOSIZATE WP 400H

TYLOSE P

CELLULOSE, 2-HYDROXYETHYL ETHER

TYLOSE MH-K

NATROSOL 250HHR

【Molecular Formula】

C₂H₆O₂?x (Products with the same molecular formula)

【Molecular Weight】

232.11756

【Inchi】

InChI=1S/C9H13NO.BrH/c1-7(10)6-8-2-4-9(11)5-3-8;/h2-5,7,11H,6,10H2,1H3;1H

【InChIKey】

RZCJLMTXBMNRAD-UHFFFAOYSA-N

【Canonical SMILES】

CC(CC1=CC=C(C=C1)O)N.Br

Chemical and Physical Properties

【Appearance】

light yellow powder

【Density】

0.75 g/mL at 25 °C(lit.)

【Melting Point】

288-290 °C (dec.)

【Water】

H₂ O: ≤5 wt. % at 20 °C

【Solubilities】

H₂ O: ≤5 wt. % at 20 °C

【Stability】

Stable. Incompatible with strong oxidizing agents, acid chlorides, acid anhydrides

【HS Code】

39123980

【Storage temp】

Keep tightly closed in a cool place in a tightly closed container.

【Computed Properties】

Molecular Weight:232.11756 [g/mol]

Molecular Formula:C9H14BrNO

H-Bond Donor:2

H-Bond Acceptor:2

Rotatable Bond Count:2

Tautomer Count:2

Exact Mass:231.025877

MonoIsotopic Mass:231.025877

Topological Polar Surface Area:46.2

Heavy Atom Count:12

Formal Charge:0

Complexity:108

Isotope Atom Count:0

Defined Atom Stereocenter Count:0

Undefined Atom Stereocenter Count:1

Defined Bond Stereocenter Count:0

Undefined Bond Stereocenter Count:0

Covalently-Bonded Unit Count:2

Safety and Handling

【Hazard Codes】

T

【Risk Statements】

R23/24/25

【Safety Statements】

26-36-45-24/25-22

【Safety】

Experimental reproductive effects. Human systemic effects: change in plasma or blood volume, intracranial pressure increase, somnolence. When heated to decomposition it emits acrid smoke and irritating vapors.

Hazard Codes: ?ToxicT

Risk Statements: 23/24/25-36/37/38?

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.?

R36/37/38: Irritating to eyes, respiratory system and skin.

Safety Statements: 26-36-45-24/25-22?

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.?

S36: Wear suitable protective clothing.?

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible.)?

S24/25: Avoid contact with skin and eyes.?

S22: Do not breathe dust.

WGK Germany: 3

RTECS: FJ5958000

F: 3

HS Code: 39123980

【Specification】

The First Aid Measures of? Hydroxyethyl Cellulose (CAS NO.9004-62-0):

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

【Report】

Reported in EPA TSCA Inventory.

Use and Manufacturing

【Usage】

Cryoprotective agent for erythrocytes.

Biomedical Effects and Toxicity

【Pharmacological Action】

- Agents that dilate the pupil. They may be either sympathomimetics or parasympatholytics.

- Drugs that mimic the effects of stimulating postganglionic adrenergic sympathetic nerves. Included here are drugs that directly stimulate adrenergic receptors and drugs that act indirectly by provoking the release of adrenergic transmitters.