

Urea ULTRAPURA

About this item

CAS Number: 9005-64-5

Formula: $C_{58}H_{114}O_{26}$

MDL Number: MFCD00165986

Density: 1.11 g/cm³

: Management of Change (MOC)
category = R

Storage Temperature: Ambient

EINECS: 500-018-3

Specification Test Results

NF - Acid Value:	≤ 2.0
NF - Residue on Ignition:	≤ 0.25 %
NF - Dioxane:	≤ 10 ppm
NF - Ethylene Oxide:	≤ 1 ppm
NF - Hydroxyl Value, mg KOH/g:	96 - 108
NF - Identification A:	Passes Test
NF - Identification B:	Passes Test
NF - Saponification Value, mg KOH/g:	40 - 50
NF - Caproic Acid (Composition of Fatty Acids):	≤ 1.0 %
NF - Caprylic Acid (Composition of Fatty Acids):	≤ 10.0 %
NF - Capric Acid (Composition of Fatty Acids):	≤ 10.0 %
NF - Lauric Acid (Composition of Fatty Acids):	40.0 - 60.0 %
NF - Myristic Acid (Composition of Fatty Acids):	14.0 - 25.0 %
NF - Palmitic Acid (Composition of Fatty Acids):	7.0 - 15.0 %
NF - Stearic Acid (Composition of Fatty Acids):	≤ 11.0 %
NF - Oleic Acid (Composition of Fatty Acids):	≤ 11.0 %

EP/BP - Composition of Fatty Acids - Oleic Acid:	≤ 11.0 %
EP/BP - Composition of Fatty Acids - Linoleic Acid:	≤ 3.0 %
EP - Identification A:	Passes Test
EP - Identification D:	Passes Test
EP/BP - Hydroxyl Value:	96 - 108
EP - Peroxide Value:	≤ 10.0
EP - Saponification Value:	40 - 50
EP - Water (H ₂ O):	≤ 3.0 %
EP - Ethylene Oxide:	≤ 1 ppm
EP - Dioxan:	≤ 10 ppm
Appearance:	Passes Test
pH of 5% Solution at 25°C:	5.0 - 7.0
Arsenic (As):	≤ 1,000 ppm
Peroxide Value, meqO ₂ /kg:	≤ 2.0
Microbiological - Total Aerobic Microbial Count (cfu/g):	≤ 100
Microbiological - Escherichia Coli:	Passes Test
Microbiological - Pseudomonas aeruginosa:	Passes Test
Microbiological - Salmonella:	Passes Test

NF - Oleic Acid (Composition of Fatty Acids):	≤ 11.0 %
NF - Linoleic Acid (Composition of Fatty Acids):	≤ 3.0 %
NF - Peroxide Value:	≤ 5.0
NF - Water (H ₂ O):	≤ 3.0 %
Endotoxin Concentration (EU/mL):	≤ 10
EP/BP - Acid Value:	≤ 2.0
EP/BP - Total Ash:	≤ 0.25 %
EP/BP - Composition of Fatty Acids - Caproic Acid:	≤ 1.0 %
EP/BP - Composition of Fatty Acids - Caprylic Acid:	≤ 10.0 %
EP/BP - Composition of Fatty Acids - Capric Acid:	≤ 10.0 %
EP/BP - Composition of Fatty Acids - Lauric Acid:	40.0 - 60.0 %
EP/BP - Composition of Fatty Acids - Myristic Acid:	14.0 - 25.0 %
EP/BP - Composition of Fatty Acids - Palmitic Acid:	7.0 - 15.0 %
EP/BP - Composition of Fatty Acids - Stearic Acid:	≤ 7.0 %

Microbiological - <i>Pseudomonas aeruginosa</i> :	Passes Test
Microbiological - <i>Salmonella</i> :	Passes Test
Microbiological - <i>Staphylococcus aureus</i> :	Passes Test
Microbiological - Total Yeast and Mold Count (cfu/g):	≤ 50
JPE - Identification 1:	Passes Test
JPE - Identification 2:	Passes Test
JPE - Identification 3:	Passes Test
JPE - Moisture Content:	≤ 3.0 %
JPE - Acid Value:	≤ 4.0
JPE - Saponification Value (mg KOH/g):	43 - 55
JPE - pH:	4.0 - 7.0
JPE - Residue on Ignition:	≤ 0.25 %
JPE - Specific Gravity at 20°C:	1.090 - 1.130
JPE - Viscosity (mm ² /S):	350 - 550
JPE - Heavy Metals (as Pb):	≤ 20 ppm
JPE - Arsenic (As):	≤ 2 ppm
Ethylene glycol:	≤ 0.10 %
Diethylene glycol :	≤ 0.10 %