

Product Specification

Product Name: TWEEN 80-LQ-(SG) BP, EP

Alternate Name(s) Polysorbate 80; Polyoxyethylene sorbitan mono-oleate.

Description

Clear, yellow liquid.

Properties

Chemical Formula:

Molecular Weight:

Product Code: TP038

CAS No. 9005-65-6

General Information:

Polysorbate 80 is a mixture of partial esters of various fatty acids, mainly oleic acid, and sorbitol and its anhydrides copolymerised with approx. 20 moles of ethylene oxide for each mole of sorbitol and sorbitol anhydrides.

Quality Specification

Assay:

Specific Properties and Impurities [Typical levels]:

Acid value	≤ 2.0 mg KOH/g
Hydroxyl value	65.0 - 80.0 mg KOH/g
Iodine value	18 - 24.0 g I ₂ /100g
Peroxide value	≤ 10.0 meq O ₂ /kg
Reducing substances	≤ 5.0 ml
Saponification value	45.0 - 55.0 mg KOH/g
Specific gravity	1.06 - 1.09
Viscosity (U-tube) at 25°C	300.0 - 500.0 cSt
Water content	≤ 3.00%
Residual 1,4 Dioxane	≤ 0.0001%
Residual ethylene oxide	≤ 0.0001%
Heavy metals	≤ 0.001%
Organic volatiles residual solvents	Not present
Total ash content	≤ 0.25%
Colour (Gardner)	≤ 10
Composition of fatty acids	
C14:0 (myristic acid)	≤ 5.0%
C16:0 (palmitic acid)	≤ 16%
C16:1 (palmitoleic acid)	≤ 8%
C18:0 (stearic acid)	≤ 6%
C18:1 (oleic acid)	≥ 58%
C18:2 (linoleic acid)	≤ 18%
C18:3 (linolenic acid)	≤ 4%

Conforms to BP, EP

Hazard and Safety Data

UN Group:	None Allocated
Class:	None Allocated
UN Number:	None Allocated
Hazchem code:	None Allocated
CS MSDS Code:	N/A
Poison schedule:	Not Scheduled
Emergency Procedure Guide No.:	N/A

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