



GLYCERINE 4810

Chemical name	: Glycerol
N° CAS	: 56-81-5
N° EINECS	: 200-289-5
INCI name	: Glycerin
Origin	: Vegetable, non GMO

CHARACTERISTICS (on CoA)	UNITS	VALUES	METHODS
Refractive index at 20°C		1.4732-1.4750	APAG-GL-006-1988
Glycerol content by refractive index	%	≥ 99.5	APAG-GL-006-1988
Water content	%	≤ 0.5	ISO 760-1978 E
APHA colour		≤ 10	ISO 2211-1973 E
Acidity/ Alkalinity	ml NaOH 0.1 M	conformable	European Pharmacopoeia
IR		conformable	European Pharmacopoeia
Appearance of solution		conformable	European Pharmacopoeia
Aldehydes		conformable	European Pharmacopoeia
Halogenated compounds	ppm	≤ 30	European Pharmacopoeia
Sugars		conformable	European Pharmacopoeia
Chlorides	ppm	≤ 10	European Pharmacopoeia
Heavy metals as Pb	ppm	≤ 5	European Pharmacopoeia
Sulphated ash	%	≤ 0.01	European Pharmacopoeia
Esters		conformable	European Pharmacopoeia
Impurity A		conformable	European Pharmacopoeia
* Impurity A	%	< 0.1	
* any other impurity eluting before glycerol	%	< 0.5	

CHARACTERISTICS (Guaranteed)			
Assay		conformable	U.S Pharmacopoeia
Residue on ignition		conformable	U.S Pharmacopoeia
Sulfate		conformable	U.S Pharmacopoeia
Heavy metals		conformable	U.S Pharmacopoeia
Chlorinated compounds		conformable	U.S Pharmacopoeia
Organic volatile impurities		conformable	U.S Pharmacopoeia
Fatty acids and esters		conformable	U.S Pharmacopoeia

PHYSICAL PROPERTIES (Indicative values)			
Aspect		syrupy liquid, very hygroscopic	
Appearance at 20°C		clear, colourless liquid	
Specific weight at 25°C	g/cm3	ca. 1.26	
Viscosity at 20°C	mPa.s	min. 1150	
Soluble in		water, alcohol, slightly in acetone	
Flash point	°C	> 199	
Auto ignition temperature	°C	ca. 370	



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STATUS

EG : Food additive E422
USA : FDA §182.1320 (GRAS : Generally Recognized As Safe)
Meets the requirements of the current European (7.0), USA (USP 33 NF 28) and Japanese Pharmacopoeia (XV)

STANDARD AVAILABILITY

Bulk
250 kg net drums
1250 kg liquabins

STORAGE CONDITIONS

Keep packaging unopened and undamaged
Store at room temperature in a clean and aerated place
For bulk storage, it is recommended to keep the product in nitrogen flushed tanks

Other grades of Glycerin are available