



UCN CHEMICAL
LIMITED

Quality Control Department

PRODUCT	REFINED GLYCERIN USP	METHODOLOGY USP
Description	Refined Glycerine 99,5%, obtained from the distillation and bleaching of crude glycerin.	-
Aspect@25C	limpid, Colorless and Viscous.	VISUAL
Smell	Characteristic	POP MTCS09
Glycerin(% m/m)	mín. 99,5	USP - Revision Bulletin Official May 1, 2009 ou EP 7th Ed /USP 35
Identification A - IR	Pass	EP 7th Ed. / USP 35
Identification C - Cromatography	Pass	USP 35
Impurities and Related Substances / Total Impurities (%m/m)	máx. 1,0	EP 7th Ed. /USP 35
Acidity and alkalinity (%m/m)	máx. 0,2	EP 7th Ed. /USP 35
Refractive Index	mín. 1,470 / máx. 1,475	EP 7th Ed.
Aldehydes (ppm)	máx. 10	EP 7th Ed.
Halogenated Compounds (ppm)	máx. 30	EP 7th Ed. / USP 35
Specific Weight 25°C (kg/l)	aprox. 1,25	ASTM D 4052 ou USP 35
Color (Apha)	máx. 10	Apha ou ASTM D1209
Ignition Residue - Ash (% m/m)	máx 0,01	USP 281/2009 ou EP 7th Ed /USP 35
Water (% m/m)	máx. 0,50	EN ISO 12937 ou EP 7th Ed /USP 35
pH (sol 10% / 25°C)	mín.5,0 / máx. 8,0	in house
Fatty Acids and Esters (ml)	máx. 1,0	USP - Revision Bulletin Official May 1, 2009 ou EP 7th Ed /USP 35
Chlorides (ppm)	máx. 10	USP - 221/2009 ou EP 7th Ed /USP 35
Sulphates (ppm)	máx. 20	USP - 221/2009 ou USP 35
Heavy Metals (as Pb) (ppm)	máx. 5	USP - 231 ou EP 7th Ed /USP 37
Diethylene Glycol and related (% m/m)	máx. 0,1	USP 35
Ethylene Glycol (% m/m)	máx. 0,1	USP 35