

GLYCERINE 4804

Technical Data Sheet

OLEON is a registered trademark.

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1. DESIGNATION

 Chemical name
 : GLYCEROL

 CAS No.
 : 56-81-5

 EC no.
 : 200-289-5

Origin : vegetable (rapeseed, sunflower, palm)

EU Food additive no. : E 422 - GLYCEROL

INCI Name : GLYCERIN

Qualifications : Halal; FSSC 22000; Ecocert; Kosher (available on request)

2. SPECIFICATIONS

Refractive Index at 20°C None 1.473 - 3 Assay $\%(m/m) \ge 99$ Glycerol Content $\%(m/m) \ge 99.7$	1.474 Eur.Ph. USP-NF
	USP-NF
Clycorol Content 9/(m/m) > 00.7	
Glycerol Content $\%(m/m) \ge 99.7$	APAG-GL-009
Colour APHA None ≤ 10	ISO 2211
Water $\%(m/m) \le 0.3$	ISO 760
Relative Density (25°C/25°C) None \geq 1.257	USP-NF
Readily carbonizable substances None conform	n USP-NF/JECFA
Identification - Acroleine test None conform	n Eur.Ph.
Chlorides $mg/kg \le 10$	Eur.Ph.
Heavy metals $mg/kg \le 5$	Eur.Ph.
Sulfated Ash $\%(m/m) \le 0.01$	ISO 1616
Fatty acids & esters as butyric acid $\%$ ≤ 0.1	USP-NF
Chlorinated compounds $mg/kg \le 30$	USP-NF
Butantriols % ≤ 0.2	HR-GC/MS
3-monochloropropane-1,2-diol $mg/kg \leq 0.1$	GC/MS
Acrolein, glucose and ammonium None conform	n APAG-GL-011
compounds	
Cadmium (Cd) $mg/kg \le 1$	ICP-MS
Arsenic (As) $mg/kg \leq 3$	ICP-MS
Lead (Pb) $mg/kg \le 2$	ICP-MS
Mercury (Hg) $mg/kg \le 1$	ICP-MS
CHARACTERISTICS (guaranteed)	
Candida albicans None absence	e Eur.Ph.2.6.12/13
Clostridia None absence	e Eur.Ph.2.6.12/13
Escherichia Coli None absence	e Eur.Ph.2.6.12/13
Enterobacteriaceae None absence	e Eur.Ph.2.6.12/13
Listeria monocytogenes None absence	e Eur.Ph.2.6.12/13
Pseudomonas aeruginosa None absence	e Eur.Ph.2.6.12/13
Salmonella None absence	e Eur.Ph.2.6.12/13
Staphylococcus aureus None absence	e Eur.Ph.2.6.12/13

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Total anaërobic count		cfu/g	≤ 100	Eur.Ph.2.6.12/13
Total aerobic microbial count-TAMC		cfu/g	≤ 100	Eur.Ph.2.6.12/13
Total yeasts/moulds count-TYMC		cfu/g	≤ 10	Eur.Ph.2.6.12/13
Any organochlorine pesticide		mg/kg	≤ 0.05	GC-MS
Any organophosphorus pesticide		mg/kg	≤ 0.05	GC-MS
Any organonitrogen pesticide		mg/kg	≤ 0.5	GC-MS
Any pyrethroid insecticide		mg/kg	≤ 0.05	GC-MS
Any acid herbicide		mg/kg	≤ 0.6	GC-MS
Any other pesticide		mg/kg	≤ 0.5	GC-MS
Benzo (a) pyrene		μg/kg	≤ 1.0	GC/MS
Sum PAH4		μg/kg	≤ 1.0	GC/MS
Sum of Dioxins (PCDD/F-TEQ)		pg/g	≤ 0.75	HRGC/HRMS
Sum of dioxins and dioxin-like PCBs		pg/g	≤ 1.25	HRGC/HRMS
Non dioxin-like PCBs (ICES-6)		ng/g	≤ 40	HRGC/HRMS
PROPERTIES (indicative values)	<u>)</u>			
Flash point		°C	ca. 199	
Self ignition temperature		°C	ca. 370	
Density	at 20°C	kg/m³	ca. 1261	
Viscosity	at 20°C	mPa.s	ca. 1150	

3. PROVISIONS

STANDARD PACKAGING

Bulk (RTC, as liquid).

Drums (250 kg net weight).

IBC (1250 kg net weight).

TOTAL SHELF LIFE

24 months in sealed drums or IBC's; 12 months in bulk.

COMPLIANCY NOTICE

This product complies with the component's monograph as described in the current edition of the European Pharmacopoeia (Ph. Eur.).

Conforms to the FCC requirements and the JECFA specification.

Listed as GRAS substance (Generally recognized as safe) under CFR Title 21 Part 182 (§182.1320).

PARTICULAR PROPERTIES

Clear, colourless hygroscopic syrupy liquid with not more than a slight characteristic odour, which is neither harsh nor disagreeable.

Solubility: miscible with water and with ethanol 96%, slightly soluble in acetone, practically insoluble in fatty oils and in essential oils.

Hygroscopic.

SAFETY & REGULATORY DATA

Please refer to the relevant Safety Data Sheet for more information.

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STORAGE RECOMMENDATIONS

The shelflife is guaranteed provided the goods are stored in original drums/liquabins or stainless steel containers/tanks, in dark, temperature min.20°C and max.60°C, under nitrogen blanketing with oxygen content <0.1%.

MAIN APPLICATION(S)

Food additive.

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