

Glycerine

CAS 56-81-5 · $C_3H_8O_3$ · 99.5% refined (USP/IP on request)

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1. Product identity

Product name	Glycerine
Synonyms	glycerin, glycerol, refined glycerine, pharmaceutical-grade glycerine
C.A.S. number	56-81-5 (EC 200-289-5)
Molecular formula	$C_3H_8O_3$ (HOCH ₂ CH(OH)CH ₂ OH)
Molecular weight	92.09 g/mol (given as 92.1 on the ILO ICSC card)
Grade supplied against	99.5% refined (USP/IP on request)
Appearance	Clear, colourless, odourless, hygroscopic syrupy liquid with a sweet taste
Product group	Solvents & Organic Chemicals
HSN code	2905 45 00
Country of origin	As stated on the producer's documents for the lot supplied; confirmed at offer stage
Packing	250 kg drum · IBC
Storage	Keep containers tightly closed in a dry, well ventilated place out of direct sunlight, in stainless steel, HDPE or lined mild steel. Glycerine is strongly hygroscopic - moisture pick-up lowers the assay, so keep drums and tanks sealed and nitrogen-blanket bulk storage for pharmacopoeial grades. Keep separated from strong oxidising agents. Store above about 18 degC, or provide heated/insulated/traced storage, if the material must stay pourable.

2. Analytical specification

S. No.	Test parameter	Specification	Method
1	Description	Clear, colourless, odourless, hygroscopic syrupy liquid with a sweet taste	Visual
2	Identification	Conforms to the substance supplied	Instrumental or chemical test, per method agreed
3	Assay / grade	99.5% refined (USP/IP on request)	Titrimetry or instrumental, per method agreed
4	Physical state	Liquid (sets to a soft solid in cold storage - see melting point)	Visual
5	Solubility in water	Miscible with water in all proportions; also miscible with ethanol; practically insoluble in hydrocarbons, fixed oils and chloroform	Per the test method agreed

S. No.	Test parameter	Specification	Method
6	pH	pH 5-8 is quoted on a UK supplier SDS for glycerine, but that SDS does not state the dilution it refers to. Pure glycerine is essentially neutral, and pH is not a meaningful specification for the neat product - pharmacopoeial grades (USP/BP/Ph.Eur.) are controlled on acidity and alkalinity by titration, not by pH. Publish your own COA figure with its basis, or state that pH is not applicable.	Potentiometry on an aqueous suspension
7	Relative density	1.26 at 20 degC (ILO ICSC 0624 and supplier SDS)	Pyknometry or gas displacement
8	Melting / freezing point	18 degC (ILO ICSC 0624); about 18 degC (supplier SDS). Refined glycerine will crystallise or go stiff in an unheated store in winter.	Thermal analysis
9	Boiling point	290 degC (ILO ICSC 0624 and supplier SDS). It decomposes at around the boiling point, forming acrolein.	Distillation range
10	Flash point	176 degC (ILO ICSC 0624); greater than 175 degC open cup (supplier SDS). Combustible, but not a flammable liquid. Autoignition 393 degC.	Closed cup
11	Additional parameters	To the specification agreed before order	As agreed

3. Transport classification

Not regulated for transport · Class Not applicable - not regulated under ADR, RID, IMDG or IATA (supplier SDS) · Packing group Not applicable

Proper shipping name: Not applicable - not a dangerous good

What this document is. This is a product specification sheet. It states the grade this material is supplied against, its packing and its identity. **It is not a certificate of analysis, it carries no test results, and it certifies no batch.** Tested values for the consignment actually loaded appear on the batch certificate of analysis issued against that batch, which travels with the despatch documents. Identity and physical data are drawn from PubChem, the ECHA CLP inventory and ILO safety cards; the producer's documents for the grade quoted govern. Velora Chemicals Private Limited is a bulk supplier and trader, not a manufacturer.