

Sodium Methoxide Solution

CAS No. 124-41-4	IMCO Class 3/33C	UN No. 1289
Chemical Name	Sodium Methoxide, Sodium Methylate	
Molecular Formula	NaOCH ₃	
Molecular Weight	54.04	
Appearance	Viscous, clear, colorless liquid, highly hygroscopic	
Solution in Water	Practically Clear (1g dissolved in 3ml water)	
Assay (as NaOH ₃)	25.0 - 29.0% w/w (in Methanol)	
Free Alkalinity (NaOH & Na ₂ CO ₃)	Maximum 0.45% w/w (calculated as NaOH)	
Total Alkalinity	18.5 - 21.5% w/w (calculated as NaOH)	
Specific Gravity	0.96 g/ml (maximum)	
Moisture (K.F.)	Maximum 0.2% w/w	
Chemical Properties	Highly sensitive to moisture, O ₂ , CO ₂ ; Caustic in nature; highly flammable; Flash point 33 °C (Closed Cup)	
Hazard	Corrosive, water-reactive, flammable substance. In case of fire, use CO ₂ /DCP extinguishers; do not use water	
Packing Details	Bulk supply in Tankers, with N ₂ blanketing; Also in MS (CS) Drums of 220 lit. cap. (50 kg approx. as 100% NaOCH ₃) packed and sealed under N ₂	
Storage & Sampling	Should be stored in a cool and dry place, inside metallic Drums or tank, protected from heat, moisture, direct light, sources of ignition, etc. Samples should be drawn and analysed under N ₂	
Liquid Handling	Keep container dry and away from sources of ignition; do not smoke; prevent exposure to air, moisture, etc. Use rubber hand-gloves, apron, nose-mask, goggles and other protective equipment while handling solution	

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