



## Certificate of Analysis.

### Isopropyl alcohol/2-Propanol/IPA Semi Conductor Grade.

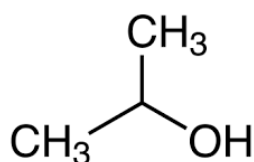
Product code:	<b>BS13994.</b>
Description:	<b>Isopropyl alcohol/2-Propanol/IPA Semi Conductor Grade.</b>
Chemical Name:	<b>2-propanol.</b>
Pack Size:	<b>2.5 lit.</b>
CAS NO.:	<b>67-63-0.</b>
Mol. Weight:	<b>60.1 g/mol.</b>
Mol. Formula:	<b>C<sub>3</sub>H<sub>8</sub>O.</b>
MDL Number:	<b>MFCD00011674.</b>
Melting Point:	<b>-89°C.</b>
Boiling Point:	<b>82.6°C.</b>
Density:	<b>0.786 g/cm<sup>3</sup>.</b>
Solubility:	<b>Soluble in water.</b>
Storage:	<b>Store at Ambient temperature.</b>
LOT NO.:	<b>Sample.</b>
Manufacture Date:	<b>Lot specific.</b>
Expiry Date:	<b>5 years.</b>

Characteristics	Specification	Result
Appearance:	<b>Colorless clear liquid.</b>	<b>Lot specific.</b>
Chloride (Cl):	<b>Max. 60 ppb.</b>	<b>Lot specific.</b>
Phosphate (PO <sub>4</sub> ):	<b>Max. 75 ppb.</b>	<b>Lot specific.</b>
Arsenic (As):	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Al:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Ag:	<b>Max. 5 ppb.</b>	<b>Lot specific.</b>
Au:	<b>Max. 5 ppb.</b>	<b>Lot specific.</b>
B:	<b>Max. 3 ppb.</b>	<b>Lot specific.</b>
Ba:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Be:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Bi:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Ca:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Cd:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Cr:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Co:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Cu:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Fe:	<b>Max. 5 ppb.</b>	<b>Lot specific.</b>
Ga:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>
Ge:	<b>Max. 10 ppb.</b>	<b>Lot specific.</b>



K:	Max. 10 ppb.	Lot specific.
Li:	Max. 10 ppb.	Lot specific.
Mg:	Max. 10 ppb.	Lot specific.
Mn;	Max. 10 ppb.	Lot specific.
Mo:	Max. 10 ppb.	Lot specific.
Na:	Max. 10 ppb.	Lot specific.
Ni:	Max. 10 ppb.	Lot specific.
Pb:	Max. 10 ppb.	Lot specific.
Si:	Max. 10 ppb.	Lot specific.
Sn:	Max. 10 ppb.	Lot specific.
Sr:	Max. 10 ppb.	Lot specific.
Ta:	Max. 10 ppb.	Lot specific.
Tl:	Max. 10 ppb.	Lot specific.
Ti:	Max. 10 ppb.	Lot specific.
V:	Max. 10 ppb.	Lot specific.
Zn:	Max. 10 ppb.	Lot specific.
Zr:	Max. 10 ppb.	Lot specific.
Water Content:	Max. 0.05%.	Lot specific.
Alkalinity:	Max.0.1 micro-eq/gr.	Lot specific.
Acidity:	Max. 0.2 micro-eq/gr.	Lot specific.
Residue (after evaporation):	Max.3000 ppb	Lot specific.
Color:	Max.6 APHA.	Lot specific.
Purity by GC:	Min.99.8%.	Lot specific.

Please Note: - This material is only for laboratory purpose and not for human consumption. This is a computer generated COA, no stamp or signature is required.




**Dr.K. Deepti.**  
**Technical Head.**

