



German Metal Surface Treatment Chemicals Co.  
Technical Affair Division  
Quality Control Department



## Certificate of Analysis

SERIAL NO: (144)

Issue Date: 01/04/2020

PRODUCT: Benzalkonium Chloride 50 %  
BATCH NO: 04B50S0319  
PRODUCTION DATE: Mar.20  
EXPIRY DATE: Mar.23

Test	Specification	Result	Status
Appearance	Clear colorless to pale yellow liquid	Clear pale yellow liquid	pass
Active matter %	50.0±2.0	50.48	pass
Free amine %	Max 2.00	0.73	pass
pH (5.0%) at 20 °C	7.0±1.0	7.92	pass
Spec. Gravity at 25 °C	0.96±0.02	0.977	pass

### Conclusion

Product approved for releasing according to Specification.

QC.Senior Chemist

Hussam