



TECHNICAL DATA SHEET(TDS)

Benzalkonium Chloride 50% Solution, NF Grade

Product Specifications (CAS# 8001-54-5)

Test	Specification	Typical Results
Appearance @ RT	Clear liquid, colorless or slightly yellow, having an aromatic odor	Pass
Total alkyl ammonium chlorides Assay	50.0 +/- 2.5 (MW 352) Wt. %	51.0 Wt. %
Ratio of alkyl components, wt/wt Assay:		
	C12 (Min. 40.0%)	69.5%
	C14 (Min. 20.0%)	25.1%
	C12 + C14 (Min. 70.0%)	94.6%
	C16 (As reported)	5.3%
Amines and amine salts	0.1 mmol/g (5.0 mL) Maximum	0.087 mmol/g (4.37 mL)
Acidity or Alkalinity	<0.5 mL 0.1N HCl or 0.1N NaOH	0.05 0.1N HCl
Alcohol content	Does not contain alcohol	Pass
Benzyl alcohol, wt/wt	Max. 0.5%	0.001%
Benzaldehyde, wt/wt	Max. 0.15%	Not detected at 0.0001%
Benzyl chloride, wt/wt	Max. 0.05%	Not detected at 0.0001%
Identification A	A white precipitate is formed	Pass
Identification B	Chloride <191>: Meets requirements	Pass
Identification C	An orange-red color is produced	Pass
Identification D	Sample corresponds to standard	Pass

Appropriate/legal use of this product is the responsibility of the user.

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