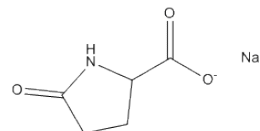


Certificate Of Analysis

Name: 2-Pyrrolidone-5-carboxylic acid sodium salt
CAS No.: 54571-67-4
Cat No.: A870418
Batch No.: P12122018
Mfg.Date: 2018.12.12
Exp.Date: 2020.12.11



Items	Specifications	Results
Appearance	Colorless to pale yellow Liquid	Conforms
Acidity(pH)	6.8~ 7.4	7.35
Color(APHA)	≤30	20
Specific Gravity	1.26~1.30	1.270
Optical rotation	-0.5~0.5	-0.20
Transmittance (%)	≥95%	99.25
chloride	≤0.07%	Conforms
Sulfate	≤0.05%	Conforms
Pb (ppm)	≤20	Conforms
AS	≤2	Conforms
Concentration(%)	48.0-52.0	48.65
N(%)	4.45-4.82	4.650
Conclusion	The product tested complies with the specifications.	

Storage condition: Store in a tightly closed container in a cool and dry place.

Checker:

**if you have any comments and suggestions, please contact us by sales@amadischem.com*