



Tartaric Acid (K-TART) for Red Wine Procedure for ChemWell®-T Auto-Analyser

Requirements:

- Tartaric Acid Assay Kit (K-TART) (provides ~ 2000 assays).
- K-TART (RED) ChemWell®-T assay file.
- Use in association with the Tartaric Acid Assay Kit (K-TART) product data booklet.

Use:

For the specific measurement of tartaric acid especially in red wines.

For specific sample preparation methods refer to the Tartaric Acid Assay Kit (K-TART) data booklet.

Assay Principle:

The tartaric acid assay is based on the reaction between tartaric acid and vanadate.

Procedure:

Prepare the assay reagents and calibrators and use with the K-TART (RED) ChemWell®-T assay file.

Tartaric Acid Assay Kit (K-TART) Components:

Bottle 1: Clarifying Agent (11 mL)
Stable for > 2 years at room temperature.

Bottle 2: (x2) Tartaric Acid Reagent 1 (44 mL)
Stable for > 1 year at 4°C.

Bottle 3: (x2) Tartaric Acid Reagent 2 (44 mL)
Stable for > 1 year at 4°C.

Preparation of Assay Reagents:

Clarifying Agent

Use bottle 1 (Clarifying Agent) as supplied.

K-TART R1:

Use bottle 2 (Tartaric Acid Reagent 1) as supplied.

K-TART R2:

Use bottle 3 (Tartaric Acid Reagent 2) as supplied.

Calibrators:

K-TART 1: 0 g/L (use distilled water)
K-TART 2: 2.5 mg/L Tartaric acid
K-TART 3: 5.0 mg/L Tartaric acid
K-TART 4: 10.0 mg/L Tartaric acid

Assay Parameters:

Assay volumes:	Distilled water:	0.170 mL
	Sample:	0.010 mL
	Clarifying Agent	0.005 mL
	K-TART R1:	0.040 mL
	K-TART R2:	0.025 mL
Calibrators:	0, 2.5, 5.0, 10.0 g/L Tartaric acid	
Reaction time:	4 min at 37°C	
Wavelength:	505 nm	
Assay type:	endpoint	
Reaction direction:	increase	
Linearity:	up to 10 g/L of Tartaric acid	

