# NEUTRALISING AMINE

**Determination of neutralising amines in high purity steam and condensate**

KPLM-NA

**Step 1.**

Take a **10ml, 20ml** or **40ml** sample.
(See reference data)

**Step 2.**

Add **5** drops of **NA1.**

Sample turns **Blue**.

(If sample turns orange report result as NIL)

**Step 3.**

Count drops of **NA2** until sample turns **Yellow / Orange.**

**Step 4.**

Record number of drops.

## HEALTH & SAFETY

Refer to R & S phrases on individual bottles.

Wear protective gloves and safety goggles when performing any tests using corrosive, harmful or irritant reagents.

Do not ingest.

## EQUIPMENT & REAGENTS

| | |
|---|---|
| EDT018 | 65ml Plastic Test Bottle |
| EDT167 | 10ml Syringe |
| SDTxxx | NA1 Neutralising Amine Indicator |
| SDTxxx | NA2 Neutralising Amine Titrant |

## REFERENCE DATA

| Neutralising amine | 10ml sample factor | 20ml sample factor | 40ml sample factor |
|---|---|---|---|
| Cyclohexylamine (CHA) | 8.0 | 4.0 | 2.0 |
| Diethylaminoethanol (DEAE) / Diethylethanolamine (DEEA) | 9.4 | 4.7 | 2.3 |
| Methoxypropylamine (MOPA) | 7.2 | 3.6 | 1.8 |
| Monoethanolamine (MEA) | 4.8 | 2.4 | 1.2 |
| Morpholine (MOR) | 7.0 | 3.5 | 1.7 |
| Triethanolamine (TEA) | 12.0 | 6.0 | 3.0 |

**Step 5.**

To calculate your result multiply the number of drops of NA2 added to sample by the factor.

**Neutralising amine as product (mg/l) ppm = Number of drops of NA2 x factor**