



Multitrope™ 1214

Green surfactant

Multitrope™ 1214 is a biodegradable anionic surfactant based on the phosphate ester of a natural fatty acid. It is suitable for use in corrosion inhibitor formulations and has shown excellent results in sweet corrosion testing, obtaining a 98% reduction in corrosion at just 25 parts per million. Multitrope™ 1214 is also easy to formulate and is stable in both acid and alkali conditions.

Typical Properties

Measurement	Unit	Typical Value
Appearance		Clear viscous liquid
Density at 25°C	g/cm ³	1.20
Activity		100%
Acid Value	mgKOH/g	205
Colour	Gardner	6
pH (1% aqueous solution)		1.8
Solubility In Water		Soluble

Features and Benefits

Feature	Benefit
Highly soluble	Easy to formulate
Stability	Stable in both acid and alkaline formulations
Excellent corrosion inhibitor	High performance at low inclusion levels

Corrosion inhibition results

The inhibition performance of Multitrope™ 1214 against CO₂ corrosion has been tested under typical North Sea conditions.

Linear polarisation resistance (LPR) electrochemical bubble testing was performed at 60 °C under sweet conditions at ambient pressure using carbon steel.

Dose rate (ppm)	Reduction in corrosion versus blank (% after 18 hour test)
10	97
25	98

Non-warranty

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Applications and recommended use levels

Croda recommends that this product is used in the following typical concentrations:

Corrosion inhibitor formulations 10-1000ppm

Product Registrations

Europe, USA, Canada, Australia, China, Japan, Korea

Further information

Croda sales and distribution are co-ordinated through an extensive worldwide network of technical and commercial experts. Our specialists are able to offer unrivalled expertise and support in selecting the most effective Croda products for your application. For further information or advice please contact your local sales office, visit our website, or email oilfield@croda.com.

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