



# Uniphos Chemicals

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## XF-334L (HEDP 50%)

### Scale Inhibitor

**XF-334L (HEDP 50%)** is an aqueous solution of 1-Hydroxyethylidene -1, 1-diphosphonic acid, (HEDP) and is noted for excellent CaCO<sub>3</sub> scale inhibition and chlorine stability. **JC-334** is widely used in industry as a sequestering agent and calcium carbonate scale inhibitor for applications in cooling water treatment, boiler water treatment, industrial and institutional cleaners, swimming pool stain prevention, personal care products, metal ion control.

|                          |   |
|--------------------------|---|
| <b>Abbreviation</b>      | HEDP  |
| <b>Molecular Formula</b> | C <sub>2</sub> H <sub>8</sub> O <sub>7</sub> P <sub>2</sub> |
| <b>Molecular Weight</b>  | 206   |
| <b>Chemical Name</b>     | 1-Hydroxyethylidene -1, 1-diphosphonic acid                 |
| <b>CAS Number</b>        | 2809-21-4   |

### Typical Properties

|  |   |
|--|---|
| <b>Appearance</b>                                | Clear water white to pale yellow liquid |
| <b>Active acid, %</b>                            | 48.0 – 52.0                             |
| <b>pH, 1% solution @ 25°C</b>                    | 2.0 max.                                |
| <b>Specific gravity @ 20°C, g/cm<sup>3</sup></b> | >=1.34                                  |
| <b>Iron, as Fe, ppm</b>                          | 35 max.                                 |
| <b>Phosphorous acid, %</b>                       | 4.0 max.                                |
| <b>Color APHA (Hazen)</b>                        | 150 max.                                |
| <b>Chlorides (as Cl), %</b>                      | 1.0 max.                                |

### Packaging

PE drum, IBC/Tote, Bulk Tank