

Phosphonates

Product	Chemical Name	Abbr	Product form	Appearance	Active content%	Specific gravity @20°C	Ph 1% @ 25°C	Functional Properties	CaCO ₃ Inhibition	CaSO ₄ inhibition	Ca ₃ (PO ₄) ₂ inhibition	CaC ₂ O ₄ inhibition	BaSO ₄ inhibition	CaF ₂ inhibition	Calcium tolerance	Iron control	Sequestration	Steel corrosion inhibition
SolQuest® 2000	Amino tris (methylenephosphonic acid)	ATMP	Liquid	Colorless to pale yellow aqueous solution	50 (as acid)	1.33	< 2	★ ★ ★	★		★ ★		★ ★ ★	★	✓	★	★ ★ ★	
SolQuest® 2006	Amino tris (methylenephosphonic acid)	Na ₅ ATMP	Liquid	Colorless to pale yellow aqueous solution	29 (as acid) 40 (as salt)	1.42	10 - 11											
SolQuest® 2010	1-Hydroxyethylidene (1,1-diphosphonic acid)	HEDP	Liquid	Colorless to pale yellow aqueous solution	60 (as acid)	1.44	< 2	★ ★ ★	▲	★ ★		★	★	▲	✓	★	★ ★	
SolQuest® 2016	1-Hydroxyethylidene (1,1-diphosphonic acid) Tetrasodium salt solution	Na ₄ HEDP	Liquid	Colorless to pale yellow aqueous solution	21 (as acid) 30 (as salt)	1.31	10 - 12											
SolQuest® 2016D	1-Hydroxyethylidene (1,1-diphosphonic acid) Tetrasodium salt powder	Na ₄ HEDP	Powder	White free flowing powder	59 (as acid) 84 (as salt)	0.65 – 0.95 g/cm ³ (bulk density)	11 - 12											
SolQuest® 2016DG	1-Hydroxyethylidene (1,1-diphosphonic acid) Tetrasodium salt granule	Na ₄ HEDP	granule	White free flowing granule	59 (as acid) 84 (as salt)	0.65 – 1.10 g/cm ³ (bulk density)	11 - 12											
SolQuest® 7000	2-Phosphono-1,2,4-butane tricarboxylic acid	PBTC	Liquid	Colorless to pale yellow aqueous solution	50 (as acid)	1.28	1.8 – 2.0	★ ★ ★	▲				★ ★ ★	★ ★	✓	★	★	
SolQuest® 2054	Hexamethylene diamine tetra (methylene phosphonic acid)	K ₆ HDTMPA	Liquid	Clear to pale yellow aqueous solution	23 (as acid) 33 (as salt)	1.29	6 - 8		★ ★ ★					★ ★	✓	▲	★	
SolQuest® 2086	Proprietary polyamino-phosphonate	K ₆ HDTMPA	Liquid	Clear amber solution	30 (as acid)	1.33	5.5 - 6.0 (as is)	▲	★ ★		★ ★	★ ★		▲	✓		★	

Note: ★ = Good ★★ = Very good ★★★ = Excellent ▲ = Poor ✓ = Yes

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SolQuest® 2060s	Diethylenetriamine penta (methylene phosphonic acid)	DTPMPA	Liquid	Clear brown aqueous solution	50 (as acid)	1.42	< 2											
SolQuest® 2066	Diethylenetriaminepenta (methylene phosphonic acid) Heptasodium salt	Na7DTPMPA	Liquid	Clear amber aqueous solution	25 (as acid)	1.29	6 - 8											
SolQuest® 2066C2	Diethylenetriamine penta (methylene phosphonic acid) Heptasodium salt	Na7DTPMPA	Liquid	Clear amber aqueous solution	32 (as acid)	1.40	6 - 8											
SolQuest® 4066	Heptasodium salt proprietary granule	Na7DTPMPA	granule	Off-white granule	22 (as acid)	0.6-0.8 g/cm ³ (bulk density)	6 - 8											
SolQuest® 2090	Bis-hexamethylenetri-amine phosphonate	BHMT	Liquid	Dark amber solution	45 (as acid)	1.23	< 2											
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