










Active ingredient	Descaline	Sulfamic acid	Lactic acid	Citric acid	Lactic acid Citric acid	Sulfamic acid Maleic acid	Citric acid	Combination Citric acid Sulfamic acid with Malic acid or Maleic acid	Combination citric acid with Malic acid or Tartaric acid
Number of products tested	1	4	3	1	1	1	1	2	3
Dosage form	Powder	Liquid	Liquid	Liquid	Liquid	Tabs	Powder	Tabs	Tabs or powder
Application	In 600ml water	Non-diluted or 1:1	Diluted 1:2 up to 1:8	Diluted 1:3	Diluted 1:2	In 500ml water	In 500ml water	In 500ml water	In 500ml water
Scale take-up capacity (10min/70°C)	22g	3g to 8g	18g to 35g	7.5g	6.5g	21g	9g	7g to 8g	6.8g to 7g
Scale dissolution speed (70°C)	++	++++	++	++	++	+++	++	++	++
Risk of machine blocking	No	No	No	Yes	Yes	No	Yes	Yes	yes
Compatibility metal/plastic	Yes	Partially (Grivory, stainless steel 1.4301)	Partially (Grivory)	Yes	Partially (Grivory)	Partially (Grivory, stainless steel 1.4301)	Yes	Partially (Grivory, stainless steel 1.4301, EPDM)	Yes
GHS classification	Class free nonhazardous		 or 						
Risk for environment (WG = Wasser-gefährdungsklasse)	No	Yes (H412) WG2	No	No	No	Yes (H412)	No	Yes (H412) WG1	No
Biodegradability (OECD 302B)	100%	No data	100% or no data	No data	100%	No data	No data	No data	No data