

SUPPLEMENTARY INFORMATION

Table S1: The inhibition effectiveness of different organic corrosion inhibitors for aluminium and different aluminium alloys in various solutions. The inhibition effectiveness values are reported as given in the article or calculated from the corrosion rate, corrosion current/current density, or resistance given in the article. In instances where different techniques were used for the determination of the inhibition effectiveness, the range from the minimum to the maximum values reported in the article is reported below in this table.

Material	Inhibitor	Inhibitor concentration	Medium	η (%)	Test methods and conditions	Ref.
100%	1,4,8,11,15,18,22,25-octabutoxy-29 <i>H</i> ,31 <i>H</i> -phthalocyanine	25–100 ppm	1 M HCl	76.5–83.9	PDP at 25 °C	⁴⁵
100%	2,3,9,10,16,17,23,24-octakis(octyloxy)-29 <i>H</i> ,31 <i>H</i> -phthalocyanine	25–100 ppm	1 M HCl	70.3–85.0	PDP at 25 °C	⁴⁵
100%	2,9,16,23-tetra- <i>tert</i> -butyl-29 <i>H</i> ,31 <i>H</i> -phthalocyanine	25–100 ppm	1 M HCl	74.8–83.8	PDP at 25 °C	⁴⁵
100%	29 <i>H</i> ,31 <i>H</i> -phthalocyanine (Pc4)	25–100 ppm	1 M HCl	74.2–83.0	PDP at 25 °C	⁴⁵
100%	5,9,14,18,23,27,32,36-octabutoxy-2,3-naphthalocyanine	25–100 ppm	1 M HCl	70.0–86.1	PDP at 25 °C	⁴⁵
100%	2,11,20,29-tetra- <i>tert</i> -butyl-2,3-naphthalocyanine	25–100 ppm	1 M HCl	84.3–91.2	PDP at 25 °C	⁴⁵
100%	2,3-naphthalocyanine	25–100 ppm	1 M HCl	65.3–96.2	PDP at 25 °C	⁴⁵
100%	1,4,8,11,15,18,22,25-octabutoxy-29 <i>H</i> ,31 <i>H</i> -phthalocyanine + 0.5 M KI	25–100 ppm	1 M HCl	84.5–90.3	PDP at 25 °C	⁴⁵
100%	2,3,9,10,16,17,23,24-octakis(octyloxy)-29 <i>H</i> ,31 <i>H</i> -phthalocyanine + 0.5 M KI	25–100 ppm	1 M HCl	77.2–87.4	PDP at 25 °C	⁴⁵
100%	2,9,16,23-tetratert-butyl-29 <i>H</i> ,31 <i>H</i> -phthalocyanine + 0.5 M KI	25–100 ppm	1 M HCl	76.5–86.9	PDP at 25 °C	⁴⁵
100%	29 <i>H</i> ,31 <i>H</i> -phthalocyanine + 0.5 M KI	25–100 ppm	1 M HCl	77.8–91.5	PDP at 25 °C	⁴⁵
100%	5,9,14,18,23,27,32,36-octabutoxy-2,3-naphthalocyanine + 0.5 M KI	25–100 ppm	1 M HCl	81.9–87.7	PDP at 25 °C	⁴⁵
100%	2,11,20,29-tetra- <i>tert</i> -butyl-2,3-naphthalocyanine + 0.5 M KI	25–100 ppm	1 M HCl	71.0–99.1	PDP at 25 °C	⁴⁵
100%	2,3-naphthalocyanine + 0.5 M KI	25–100 ppm	1 M HCl	56.5–99.6	PDP at 25 °C	⁴⁵
100%	1,4,8,11,15,18,22,25-octabutoxy-29 <i>H</i> ,31 <i>H</i> -phthalocyanine	100 ppm	1 M HCl	67.6	WL at 30 °C	⁴⁵
100%	2,3,9,10,16,17,23,24-octakis(octyloxy)-29 <i>H</i> ,31 <i>H</i> -phthalocyanine	100 ppm	1 M HCl	52.3	WL at 30 °C	⁴⁵

100%	2,9,16,23-tetratert-butyl-29H,31H-phthalocyanine	100 ppm	1 M HCl	54.3	WL at 30 °C	45
100%	29H,31H-phthalocyanine	100 ppm	1 M HCl	46.2	WL at 30 °C	45
100%	5,9,14,18,23,27,32,36-octabutoxy-2,3-naphthalocyanine	100 ppm	1 M HCl	56.8	WL at 30 °C	45
100%	2,11,20,29-tetra-tert-butyl-2,3-naphthalocyanine	100 ppm	1 M HCl	51.7	WL at 30 °C	45
100%	2,3-naphthalocyanine	100 ppm	1 M HCl	61.3	WL at 30 °C	45
100%	1,4,8,11,15,18,22,25-octabutoxy-29H,31H-phthalocyanine + 0.5 M KI	100 ppm	1 M HCl	93.3	WL at 30 °C	45
100%	2,3,9,10,16,17,23,24-octakis(octyloxy)-29H,31H-phthalocyanine + 0.5 M KI	100 ppm	1 M HCl	76.5	WL at 30 °C	45
100%	2,9,16,23-tetratert-butyl-29H,31H-phthalocyanine + 0.5 M KI	100 ppm	1 M HCl	77.9	WL at 30 °C	45
100%	29H,31H-phthalocyanine + 0.5 M KI	100 ppm	1 M HCl	79.5	WL at 30 °C	45
100%	5,9,14,18,23,27,32,36-octabutoxy-2,3-naphthalocyanine + 0.5 M KI	100 ppm	1 M HCl	87.3	WL at 30 °C	45
100%	2,11,20,29-tetra-tert-butyl-2,3-naphthalocyanine + 0.5 M KI	100 ppm	1 M HCl	78.6	WL at 30 °C	45
100%	2,3-naphthalocyanine + 0.5 M KI	100 ppm	1 M HCl	82.5	WL at 30 °C	45
99.999%	Phenol	0.01 M	0.5 M HCl	13.0–71.0	PDP at 25–45 °C	46
99.999%	Benzene-1,2,4,5-tetracarboxylic dianhydride	0.0004–0.010 M	1 M HCl	6.40–52.48	EIS and polarisation at 25 °C	47
99.999%	Benzene-1,2,4,5-tetracarboxylic dianhydride	0.0004–0.010 M	1 M HCl	3.00–39.10	Polarization at 35 °C	47
99.999%	Benzene-1,2,4,5-tetracarboxylic dianhydride	0.0004–0.010 M	1 M HCl	2.30–27.70	Polarization at 45 °C	47
99.999%	Benzene-1,2,4,5-tetracarboxylic dianhydride	0.0004–0.010 M	1 M HCl	2.00–25.00	Polarization at 55 °C	47
99.999%	2-amino-4,5-imidazoledicarbonitril	$1 \cdot 10^{-4}$ – $5 \cdot 10^{-3}$ M	1 M HCl	65.81–96.30	WL, Tafel extrapolation and EIS at 25 °C	48
99.999%	5-amino-4-imidazolecarboxamide	$1 \cdot 10^{-4}$ – $5 \cdot 10^{-3}$ M	1 M HCl	50.95–92.29	WL, Tafel extrapolation and EIS at 25 °C	48
99.999%	Imidazole	$1 \cdot 10^{-4}$ – $5 \cdot 10^{-3}$ M	1 M HCl	29.72–85.19	WL, Tafel extrapolation and EIS at 25 °C	48
99.998%	1,(4)-tetrakis[(2-mercapto)pyridine]phthalocyanine	$5 \cdot 10^{-6}$ – $5 \cdot 10^{-4}$ M	0.1 M HCl	51.0–83.0	PDP and at 25 °C	49

99.998%	2,3-oktakis[(2-mercapto)pridine]phthalocyanine	$5 \cdot 10^{-6}$ – $5 \cdot 10^{-4}$ M	0.1 M HCl	52.0–67.0	PDP and at 25 °C	49
99.998%	1,(4)-tetrakis[(2-mercapto)pridine]phthalocyanine	$5 \cdot 10^{-4}$ M	0.1 M HCl	49.0–85.0	PDP at 15–35 °C	49
99.998%	N-4-bromobenzilidene-2-aminophenol	10 ppm	0.1 M HCl	45.0	EIS, PDP, R_p and HE at 25 °C	50
99.998%	N-4-ethoxybenzilidene-2-aminophenol	10 ppm	0.1 M HCl	20.0	EIS, PDP, R_p and HE at 25 °C	50
99.998%	Ni(II)complex of N-4-ethoxybenzilidene-2-aminophenol	10 ppm	0.1 M HCl	70.0	EIS, PDP, R_p and HE at 25 °C	50
99.998%	Cu(II) complex of N-4-ethoxybenzilidene-2-aminophenol	10 ppm	0.1 M HCl	68.0	EIS, PDP, R_p and HE at 25 °C	50
99.998%	Cu(II) complex of N-4-bromobenzilidene-2-aminophenol	10 ppm	0.1 M HCl	62.0	EIS, PDP, R_p and HE at 25 °C	50
99.998%	Ni(II) complex of N-4-bromobenzilidene-2-aminophenol	10 ppm	0.1 M HCl	52.0	EIS, PDP, R_p and HE at 25 °C	50
99.998%	Co(II) complex of N-4-ethoxybenzilidene-2-aminophenol	10 ppm	0.1 M HCl	40.0	EIS, PDP, R_p and HE at 25 °C	50
99.998%	Co(II) complex of N-4-bromobenzilidene-2-aminophenol	10 ppm	0.1 M HCl	38.0	EIS, PDP, R_p and HE at 25 °C	50
99.99%	Glutamic acid	$1 \cdot 10^{-7}$ – $1 \cdot 10^{-3}$ M	0.1 M HCl	44.8–85.0	R_p and EIS at 25 °C	51
99.99%	Imidazole	3 – $18 \cdot 10^{-5}$ M	0.5 M HCl	20.1–70.7	PDP at 30 °C	52
99.99%	2-methyl imidazole	3 – $18 \cdot 10^{-5}$ M	0.5 M HCl	21.4–76.0	PDP at 30 °C	52
99.99%	Imidazole	9 – $18 \cdot 10^{-5}$ M	0.5 M HCl	42.3–68.8	EIS at 30 °C EFM at 30 °C	52
99.99%	2-methyl imidazole	9 – $18 \cdot 10^{-5}$ M	0.5 M HCl	46.3–71.8	EIS at 30 °C EFM at 30 °C	52
99.99%	Sodium salt of 2-((4-(3-methoxypropoxy)-3-methylpyridin-2-yl)methylsulfinyl)-1H-benzimidazole (Omeprazole)	100–500 ppm	1.0 M HCl	55.94–91.66	WL, HE, GSP and EIS at 30 °C	53
99.99%	Sodium salt of 1-(2-((3,4-dimethoxypyridin-2-yl)methylsulfinyl)-1H-benzimidazol-6-yl)-2,2-difluoroethanone (Pantoprazole sodium sesquihydrate)	100–500 ppm	1.0 M HCl	76.85–92.59	WL, HE, GSP and EIS at 30 °C	53
99.99%	5-methoxy-2-((4-methoxy-3,5-dimethylpyridin-2-yl)methylsulfinyl)-1H-benzimidazole (Rabeprazole)	100–500 ppm	1.0 M HCl	57.28–	WL, HE, GSP and EIS at 30	53

	sodium)			94.09	°C	
99.99%	Sodium salt of 2-((4-(3-methoxypropoxy)-3-methylpyridin-2-yl)methylsulfinyl)-1H-benzimidazole (Omeprazole)	500 ppm	1.0 M HCl	72.55–91.66	WL at 30–60 °C	53
99.99%	Sodium salt of 1-(2-((3,4-dimethoxypyridin-2-yl)methylsulfinyl)-1H-benzimidazol-6-yl)-2,2-difluoroethanone (Pantoprazole sodium sesquihydrate)	500 ppm	1.0 M HCl	75.81–92.59	WL at 30–60 °C	53
99.99%	5-methoxy-2-((4-methoxy-3,5-dimethylpyridin-2-yl)methylsulfinyl)-1H-benzimidazole (Rabeprazole Sodium)	500 ppm	1.0 M HCl	77.04–93.88	WL at 30–60 °C	53
99.99%	4-hydroxy-3-methoxy benzaldehyde (Vanillin) in 20/80 ethyl alcohol-water mixture	200–4000 ppm	5 M HCl	93.49–99.80	WL, HE, PSP at 30 °C	55
99.95%	Sulfonic acid	50–550 ppm	0.2 M HCl	37.6–85.6	WL at 40 °C	56
99.95%	Sodium cumene sulfonate	50–550 ppm	0.2 M HCl	13.6–44.0	WL at 40 °C	56
99.95%	Sodium alkyl sulfate	50–550 ppm	0.2 M HCl	6.4–28.8	WL at 40 °C	56
99.95%	Sulfonic acid	25–200 ppm	0.5 M HCl	22.0–70.0	WL at 30 °C	56
99.95%	Sodium cumene sulfonate	25–200 ppm	0.5 M HCl	10.0–49.0	WL at 30 °C	56
99.95%	Sodium alkyl sulfate	25–200 ppm	0.5 M HCl	6.0–31.0	WL at 30 °C	56
99.95%	Sulfonic acid	350 ppm	0.2 M HCl	81.5	PSP	56
99.95%	Sodium cumene sulfonate	350 ppm	0.2 M HCl	43.6	PSP	56
99.95%	Sodium alkyl sulfate	350 ppm	0.2 M HCl	26.5	PSP	56
99.95%	Cetyl trimethylammonium chloride	50–550 ppm	0.2 M HCl	30.8–55.0	WL after 1 h immersion at 40 °C	57
99.95%	Cetyl trimethylammonium chloride	150–350 ppm	0.5 M HCl	47.3–55.1*	PSP	57
99.95%	Carboxy methyl chitosan	200–1000 ppm	0.5 M HCl	35.5–70.9	WL and GSP at 30 °C	58
99.95%	Carboxy methyl cellulose	200–1000 ppm	0.5 M HCl	40.2–81.3	WL and GSP at 30 °C	58
99.95%	Carboxy methyl chitosan	200–1000 ppm	0.5 M HCl	40.6–69.8	WL at 30–60 °C	58
99.95%	Carboxy methyl cellulose	200–1000 ppm	0.5 M HCl	49.8–81.3	WL at 30–60 °C	58
99.95%	Polyethylene glycol (MW = 600 g/mol)	200–1000 ppm	0.5 M HCl	25.7–70.9	WL and GSP at 30 °C	59
99.95%	Polyethylene glycol (MW = 2000 g/mol)	200–1000 ppm	0.5 M HCl	28.9–74.9	WL and GSP at 30 °C	59

99.95%	Polyethylene glycol (<i>MW</i> = 6000 g/mol)	200–1000 ppm	0.5 M HCl	36.9–77.0	WL and GSP at 30 °C	⁵⁹
99.95%	Polyethylene glycol (<i>MW</i> = 600 g/mol)	200–1000 ppm	0.5 M HCl	42.6–62.2	WL at 30–60 °C	⁵⁹
99.95%	Polyethylene glycol (<i>MW</i> = 2000 g/mol)	200–1000 ppm	0.5 M HCl	46.4–68.2	WL at 30–60 °C	⁵⁹
99.95%	Polyethylene glycol (<i>MW</i> = 6000 g/mol)	200–1000 ppm	0.5 M HCl	49.8–70.4	WL at 30–60 °C	⁵⁹
99.95%	1-butyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	27.7–82.6	WL, PDP and EIS at 30 °C	⁶⁰
99.95%	1-hexyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	34.7–91.4	WL, PDP and EIS at 30 °C	⁶⁰
99.95%	1-octyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	50.2–94.0	WL, PDP and EIS at 30 °C	⁶⁰
99.95%	1-butyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	23.6–76.0	WL at 40 °C	⁶⁰
99.95%	1-hexyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	29.8–85.3	WL at 40 °C	⁶⁰
99.95%	1-octyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	43.1–87.9	WL at 40 °C	⁶⁰
99.95%	1-butyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	18.5–70.1	WL at 50 °C	⁶⁰
99.95%	1-hexyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	17.4–68.7	WL at 50 °C	⁶⁰
99.95%	1-octyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	36.3–82.3	WL at 50 °C	⁶⁰
99.95%	1-butyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	12.9–64.2	WL at 60 °C	⁶⁰
99.95%	1-hexyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	17.4–68.7	WL at 60 °C	⁶⁰
99.95%	1-octyl-3-methylimidazolium chloride	$5 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	31.8–76.0	WL at 60 °C	⁶⁰
99.91%	Polyacrylamide	10^{-5} – 10^{-4} M	0.5 M HCl	51.30–90.00	WL at 30 °C and HE	⁶¹
99.91%	Polyacrylamide	10^{-5} – 10^{-4} M	0.5 M HCl	32.55–56.60	WL at 60 °C and HE	⁶¹
99.91%	Polyacrylamide + 5 mM KBr	10^{-5} – 10^{-4} M	0.5 M HCl	65.40–94.04	WL at 30 °C and HE	⁶¹
99.91%	Polyacrylamide + 5 mM KBr	10^{-5} – 10^{-4} M	0.5 M HCl	40.75–	WL at 60 °C	⁶¹

				64.52	and HE	
99.91%	Polyacrylamide + 5 mM KI	10^{-5} – 10^{-4} M	0.5 M HCl	74.30– 97.32	WL at 30 °C and HE	⁶¹
99.91%	Polyacrylamide + 5 mM KI	10^{-5} – 10^{-4} M	0.5 M HCl	45.26– 69.70	WL at 60 °C and HE	⁶¹
99.9%	Gelatin	0.1–0.6%	0.1 N HCl	36.46– 64.13	WL and Tafel extrapolation	⁶²
99.9%	Triton X-100	0.1–0.6%	0.1 N HCl	47.63– 74.70	Tafel extrapolation	⁶²
99.9%	Polyethylene glycol (MW = 300 g/mol)	0.3–15 mM	1.0 M HCl	25.0– 56.8	WL and PDP 30 °C	⁶³
99.9%	Polyethylene glycol (MW = 400 g/mol)	0.3–15 mM	1.0 M HCl	27.7– 64.6	WL and PDP at 30 °C	⁶³
99.9%	Polyethylene glycol (MW = 600 g/mol)	0.3–15 mM	1.0 M HCl	31.8– 66.9	WL and PDP at 30 °C	⁶³
99.9%	Polyethylene glycol (MW = 300 g/mol)	15 mM	1.0 M HCl	21.13– 55.60	WL and PDP at 30–45 °C	⁶³
99.9%	Polyethylene glycol (MW = 400 g/mol)	15 mM	1.0 M HCl	23.16– 64.00	WL and PDP at 30–45 °C	⁶³
99.9%	Polyethylene glycol (MW = 600 g/mol)	15 mM	1.0 M HCl	26.92– 66.10	WL and PDP at 30–45 °C	⁶³
99.899%	<i>bis</i> -(2-hydroxy-3-methoxy)-1,6-diaminohexane salicylaldimine	25–150 ppm	0.5–2.0 M HCl	54.38– 85.62	WL after 1 h immersion at 25 °C	⁶⁴
99.899%	<i>bis</i> -(2-hydroxy-3-methoxy)-1,6-diaminohexane salicylaldimine	25–150 ppm	1.0 M HCl	55.92– 85.40	PDP and EIS after 30 min immersion at 25 °C	⁶⁴
99.899%	<i>bis</i> -(2-hydroxy-3-methoxy)-1,6-diaminohexane salicylaldimine	100 ppm	0.5–2.0 M HCl	84.43– 85.45	PDP and EIS after 30 min immersion at 25 °C	⁶⁴
99.89%	Polyoxyethylene 20 mono oleate	0.1–1 mM	1 M HCl	15.09– 43.21	WL and PDP at 25 °C	⁶⁵
99.89%	Polyoxyethylene 40 mono oleate	0.1–1 mM	1 M HCl	39.63– 68.22	WL and PDP at 25 °C	⁶⁵

99.8%	4-phenyl-3-thiosemicarbazide	60–150 ppm	0.1 M HCl	25.4–73.0	PDP and R_p at 25 °C in aerated and stirred solutions	⁶⁶
99.8%	4-phenyl-3-thiosemicarbazide	60–150 ppm	0.1 M HCl	23.2–55.6	PDP and R_p at 40 °C in aerated and stirred solutions	⁶⁶
99.8%	4-phenyl-3-thiosemicarbazide	60–150 ppm	0.1 M HCl	17.5–49.5	PDP and R_p at 60 °C in aerated and stirred solutions	⁶⁶
99.8%	4-phenyl-3-thiosemicarbazide	60–150 ppm	0.1 M HCl	8.1–41.0	PDP and R_p at 70 °C in aerated and stirred solutions	⁶⁶
99.79%	1,1 (lauryl amido) propyl ammonium chloride	$2 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	22.40–97.70	WL, PDP and EIS at 30 °C	⁶⁷
99.79%	1,1 (lauryl amido) propyl ammonium chloride	$2 \cdot 10^{-3}$ M	1 M HCl	74.00–92.90	WL, PDP and EIS at 10–60 °C	⁶⁷
99.6%	1-(2-fluorophenyl)2,5-dimethylpyrrole	$1 \cdot 10^{-5}$ – $5 \cdot 10^{-3}$ M	0.17 M HCl	60.7–78.9	PDP at 20 °C	⁶⁸
99.6%	1-(2-fluorophenyl)2,5-dimethylpyrrole-3-carbaldehyde	$1 \cdot 10^{-5}$ – $5 \cdot 10^{-3}$ M	0.17 M HCl	76.1–97.9	PDP at 20 °C	⁶⁸
99.6%	1-(2-fluorophenyl)2,5-dimethylpyrrole	$1 \cdot 10^{-3}$ M	0.17 M HCl	89.4	EIS at 20 °C	⁶⁸
99.6%	1-(2-fluorophenyl)2,5-dimethylpyrrole-3-carbaldehyde	$1 \cdot 10^{-3}$ M	0.17 M HCl	93.4	EIS at 20 °C	⁶⁸
99.6%	1-(2-methylphenyl)-2,5-dimethylpyrrole	$5 \cdot 10^{-5}$ – $5 \cdot 10^{-3}$ M	0.5 M HCl	70.4–81.8	PDP on deaerated solutions	⁶⁹
99.6%	1-(2-fluorophenyl)-2,5-dimethylpyrrole	$5 \cdot 10^{-3}$ M	0.5 M HCl	93.2	R_p and EIS on deaerated solutions	⁶⁹
99.6%	1-(2-chlorophenyl)-2,5-dimethylpyrrole	$5 \cdot 10^{-3}$ M	0.5 M HCl	90.3	R_p and EIS on deaerated solutions	⁶⁹
99.6%	1-(2-iodophenyl)-2,5-dimethylpyrrole	$5 \cdot 10^{-3}$ M	0.5 M HCl	91.0	R_p and EIS on deaerated solutions	⁶⁹
99.6%	1-(2-methylphenyl)-2,5-dimethylpyrrole	$5 \cdot 10^{-3}$ M	0.5 M HCl	93.2	R_p and EIS on deaerated solutions	⁶⁹
99.6%	1-(2-fluorophenyl)-2,5-dimethylpyrrole-3-	$5 \cdot 10^{-3}$ M	0.5 M HCl	98.2	R_p and EIS on deaerated	⁶⁹

	carbaldehyde				solutions	
99.6%	1-(2-fluorophenyl)-2,5-dimethylpyrrole-3-carbaldehyde	$5 \cdot 10^{-5} - 5 \cdot 10^{-3} \text{ M}$	0.5 M HCl	80.6-96.0	PDP on deaerated solutions	⁶⁹
99.57%	3-(10-sodiumsulfonate decyloxy) aniline monomer	1-10 ppm	0.5 M HCl	26.2-49.9	WL and PDP at 30 °C	⁷⁰
99.57%	Poly[3-(decyloxy sulfonic acid) aniline]	1-10 ppm	0.5 M HCl	32.7-59.3	WL and PDP at 30 °C	⁷⁰
99.57%	3-(12-sodiumsulfonate dodecyloxy) aniline monomer	1-10 ppm	0.5 M HCl	25.8-50.0	WL and PDP at 30 °C	⁷¹
99.57%	3-(12-sodiumsulfonate dodecyloxy) aniline monomer	1-10 ppm	0.5 M HCl	26.5-43.9*	PDP at 40 °C	⁷¹
99.57%	3-(12-sodiumsulfonate dodecyloxy) aniline monomer	1-10 ppm	0.5 M HCl	24.6-34.2*	PDP at 50 °C	⁷¹
99.57%	3-(12-sodiumsulfonate dodecyloxy) aniline monomer	1-10 ppm	0.5 M HCl	13.7-18.8*	PDP at 60 °C	⁷¹
99.57%	Poly 3-(dodecyloxy sulfonic acid) aniline	1-10 ppm	0.5 M HCl	35.5-56.1*	WL and PDP at 30 °C	⁷¹
99.57%	Poly 3-(dodecyloxy sulfonic acid) aniline	1-10 ppm	0.5 M HCl	30.2-47.5*	PDP at 40 °C	⁷¹
99.57%	Poly 3-(dodecyloxy sulfonic acid) aniline	1-10 ppm	0.5 M HCl	23.3-33.2*	PDP at 50 °C	⁷¹
99.57%	Poly 3-(dodecyloxy sulfonic acid) aniline	1-10 ppm	0.5 M HCl	19.2-23.0*	PDP at 60 °C	⁷¹
99.57%	Poly 3-dodecyloxy aniline	1-10 ppm	0.5 M HCl	60.3-88.7	PDP at 30 °C	⁷²
99.57%	Poly 3-dodecyloxy aniline	1-10 ppm	0.5 M HCl	44.9-66.7	PDP at 40 °C	⁷²
99.57%	Poly 3-dodecyloxy aniline	1-10 ppm	0.5 M HCl	28.8-45.9	PDP at 50 °C	⁷²
99.57%	Poly 3-dodecyloxy aniline	1-10 ppm	0.5 M HCl	19.4-33.1	PDP at 60 °C	⁷²
99.555%	1-phenyl-2-(2-phenyl hydrazono)-2-(phenylsulfonyl)ethan-one	$1 \cdot 10^{-6} - 1 \cdot 10^{-4} \text{ M}$	0.5 M HCl	36.7-75.4	PDP, EIS and EFM at 25 °C	⁷³
99.555%	2-(2-(40-methylbiphenyl-4-yl)hydrazono)-1-phenyl-2-(phenyl sulfonyl)ethanone	$1 \cdot 10^{-6} - 1 \cdot 10^{-4} \text{ M}$	0.5 M HCl	44.6-84.2	PDP, EIS and EFM at 25 °C	⁷³
99.555%	2-(2-(40-methoxybiphenyl-4-yl)hydrazono)-1-phenyl-2-(phenylsulfonyl)ethanone	$1 \cdot 10^{-6} - 1 \cdot 10^{-4} \text{ M}$	0.5 M HCl	50.7-88.2	PDP, EIS and EFM at 25 °C	⁷³
99.555%	1-phenyl-2-(2-phenyl hydrazono)-2-(phenylsulfonyl)ethan-one	$1 \cdot 10^{-4} \text{ M}$	0.5 M HCl	73.96-75.98*	EFM at 25-55 °C	⁷³
99.555%	2-(2-(40-methylbiphenyl-4-yl)hydrazono)-1-phenyl-2-(phenyl sulfonyl)ethanone	$1 \cdot 10^{-4} \text{ M}$	0.5 M HCl	78.85-80.83*	EFM at 25-55 °C	⁷³

99.555%	2-(2-(40-methoxybiphenyl-4-yl)hydrazono)-1-phenyl-2-(phenylsulfonyl)ethanone	$1 \cdot 10^{-4}$ M	0.5 M HCl	86.23–87.86*	EFM at 25–55 °C	73
99.535%	2-acetyl pyridine-(4-phenylthiosemicarbazone)	$0.2\text{--}5 \cdot 10^{-4}$ M	0.1 M HCl	1.55–75.92	WL at 30 °C	74
99.535%	2-acetyl pyridine-(4-phenylthiosemicarbazone)	$0.1\text{--}5 \cdot 10^{-4}$ M	0.1 M HCl	4.48–56.12	WL at 40 °C	74
99.535%	2-acetyl pyridine-(4-phenyl-iso-methylthiosemicarbazone)	$0.5\text{--}5 \cdot 10^{-4}$ M	0.1 M HCl	8.83–75.89	WL at 30 °C	74
99.535%	2-acetyl pyridine-(4-phenyl-iso-methylthiosemicarbazone)	$0.1 \cdot 10^{-4}$ M	0.1 M HCl	15.53	WL at 40 °C	74
99.535%	2-acetyl pyridine-(4-phenyl-iso-methylthiosemicarbazone)	$5 \cdot 10^{-4}$ M	0.1 M HCl	55.64	WL at 40 °C	74
99.535%	2-acetyl pyridine-(4-phenyl-iso-ethylthiosemicarbazone)	$0.5\text{--}5 \cdot 10^{-4}$ M	0.1 M HCl	23.66–73.58	WL at 30 °C	74
99.535%	2-acetyl pyridine-(4-phenyl-iso-ethylthiosemicarbazone)	$0.5\text{--}5 \cdot 10^{-4}$ M	0.1 M HCl	0.01–57.63	WL at 40 °C	74
99.535%	Hexadecyltrimethyl ammonium chloride	$5 \cdot 10^{-4}$ M	1 M HCl	91.7	WL and polarisation at 30 °C, thermometric	75
99.535%	Dodecyltrimethyl ammonium chloride	$5 \cdot 10^{-4}$ M	1 M HCl	71.7	WL and polarisation at 30 °C, thermometric	75
99.535%	Dimethyl dioctadecyl ammonium bromide	$5 \cdot 10^{-4}$ M	1 M HCl	78.9	WL and polarisation at 30 °C, thermometric	75
99.535%	Dodecyltrimethyl ammonium chloride	$1 \cdot 10^{-5}\text{--}1 \cdot 10^{-3}$ M	1 M HCl	24.3–82.6	Thermometric and polarisation at 30 °C	75
99.535%	3-methyl benzaldehyde, 2-hydroxy benzoyl-hydrazone	$1 \cdot 10^{-6}\text{--}1 \cdot 10^{-3}$ M	2 N HCl	66.3–93.4	Thermometric and polarisation at 30–55 °C	76
99.535%	3-hydroxybenzaldehyde, 2-hydroxy benzoyl-hydrazone	$1 \cdot 10^{-6}\text{--}1 \cdot 10^{-3}$ M	2 N HCl	75.3–96.2	Thermometric and polarisation at 30–55 °C	76
99.535%	4-bromo benzaldehyde, 2-hydroxy benzoyl-hydrazone	$1 \cdot 10^{-6}\text{--}1 \cdot 10^{-3}$ M	2 N HCl	67.4–94.6	Thermometric and polarisation at 30–55 °C	76
99.535%	Benzaldehyde, 2-hydroxy benzoyl-hydrazone	$1 \cdot 10^{-6}\text{--}1 \cdot 10^{-3}$ M	2 N HCl	67.0–92.7	Thermometric and polarisation at 30–55 °C	76

99.535%	<i>N</i> , 3-diphenylpropanamide	$1-11 \cdot 10^{-5}$ M	2 M HCl	69.2–91.4	WL after 1 h immersion and GSP at 25 °C	77
99.535%	3-(4-chlorophenyl)- <i>N</i> -phenylpropanamide	$1-11 \cdot 10^{-5}$ M	2 M HCl	86.7–97.3	WL after 1 h immersion and GSP at 25 °C	77
99.535%	<i>N</i> -phenyl-3-(<i>p</i> -tolyl)propanamide	$1-11 \cdot 10^{-5}$ M	2 M HCl	88.0–97.9	WL after 1 h immersion and GSP at 25 °C	77
99.535%	3-(4-methoxyphenyl)- <i>N</i> -phenylpropanamide	$1-11 \cdot 10^{-5}$ M	2 M HCl	90.1–99.4	WL after 1 h immersion and GSP at 25 °C	77
99.535%	β -(piperidino)- <i>p</i> -methoxy-propiofenone hydrochloride	$1-11 \cdot 10^{-5}$ M	2 M HCl	73.3–95.1	WL after 105 min immersion and GSP at 25 °C	78
99.535%	β -(piperidino)- <i>p</i> -methyl-propiofenone hydrochloride	$1-11 \cdot 10^{-5}$ M	2 M HCl	54.9–93.8	WL after 105 min immersion at 25 °C	78
99.535%	β -(piperidino)- <i>p</i> -hydroxy-propiofenone hydrochloride	$1-11 \cdot 10^{-5}$ M	2 M HCl	71.6–85.8	WL after 105 min immersion at 25 °C	78
99.535%	β -(piperidino) propiofenone hydrochloride	$1-11 \cdot 10^{-5}$ M	2 M HCl	37.2–78.4	WL after 105 min immersion at 25 °C	78
99.53%	Ethyl trimethyl ammonium bromide	$1.0 \cdot 10^{-6}-1.1 \cdot 10^{-5}$ M	1 M HCl	52.50–68.90	WL and GSP at 30 °C	79
99.53%	Ethyl trimethyl ammonium bromide	$1.0 \cdot 10^{-6}-1.1 \cdot 10^{-5}$ M	1 M HCl	10.9–41.3	WL at 35 °C	79
99.53%	Ethyl trimethyl ammonium bromide	$1.0 \cdot 10^{-6}-1.1 \cdot 10^{-5}$ M	1 M HCl	10.4–30.3	WL at 40 °C	79
99.53%	Ethyl trimethyl ammonium bromide	$1.0 \cdot 10^{-6}-1.1 \cdot 10^{-5}$ M	1 M HCl	9.2–29.3	WL at 45 °C	79
99.53%	Ethyl trimethyl ammonium bromide	$1.0 \cdot 10^{-6}-1.1 \cdot 10^{-5}$ M	1 M HCl	9.0–27.3	WL at 50 °C	79
99.53%	Ethyl trimethyl ammonium bromide + 10^{-4} M I ⁻	$1.0 \cdot 10^{-6}-1.1 \cdot 10^{-5}$ M	1 M HCl	77.0–85.0	WL at 30 °C	79
99.53%	Ethyl trimethyl ammonium bromide + 10^{-4} M SCN ⁻	$1.0 \cdot 10^{-6}-1.1 \cdot 10^{-5}$ M	1 M HCl	59.8–75.0	WL at 30 °C	79
99.53%	Ethyl trimethyl ammonium bromide + 10^{-4} M Br ⁻	$1.0 \cdot 10^{-6}-1.1 \cdot 10^{-5}$ M	1 M HCl	58.8–	WL at 30 °C	79

		$\cdot 10^{-5}$ M		73.1		
99.5%	Sodium dodecyl benzene sulfonate	15–75 ppm	0.1 M HCl	44.06–78.17*	PSP at 30 °C	⁸⁰
99.5%	Sodium dodecyl benzene sulfonate	15–75 ppm	0.1 M HCl	63.72–85.02*	PSP at 45 °C	⁸⁰
99.5%	Sodium dodecyl benzene sulfonate	15–75 ppm	0.1 M HCl	47.86–62.40*	PSP at 60 °C	⁸⁰
99.39%	Octyl sulphate sodium salt	$1-11 \cdot 10^{-6}$ M	1 M HCl	56.5–71.3	WL at 30 °C	⁸¹
99.39%	Decyl sulphate sodium salt	$1-11 \cdot 10^{-6}$ M	1 M HCl	65.6–71.3	WL at 30 °C	⁸¹
99.39%	Dodecyl sulphate sodium salt	$1-11 \cdot 10^{-6}$ M	1 M HCl	70.5–79.5	WL at 30 °C	⁸¹
99.39%	Hexadecyl sulphate sodium salt	$1-11 \cdot 10^{-6}$ M	1 M HCl	76.2–81.1	WL at 30 °C	⁸¹
99.39%	Dodecyl benzene sulfonate	$1-11 \cdot 10^{-6}$ M	1 M HCl	77.0–88.1	WL and GSP at 30 °C	⁸¹
99.39%	Octyl sulphate sodium salt + 0.01 M KI	$1-11 \cdot 10^{-6}$ M	1 M HCl	79.4–85.2	WL at 30 °C	⁸¹
99.39%	Decyl sulphate sodium salt + 0.01 M KI	$1-11 \cdot 10^{-6}$ M	1 M HCl	79.5–85.2	WL at 30 °C	⁸¹
99.39%	Dodecyl sulphate sodium salt + 0.01 M KI	$1-11 \cdot 10^{-6}$ M	1 M HCl	80.3–86.9	WL at 30 °C	⁸¹
99.39%	Hexadecyl sulphate sodium salt + 0.01 M KI	$1-11 \cdot 10^{-6}$ M	1 M HCl	83.6–87.7	WL at 30 °C	⁸¹
99.39%	Dodecyl benzene sulfonate + 0.01 M KI	$1-11 \cdot 10^{-6}$ M	1 M HCl	85.2–90.9	WL at 30 °C	⁸¹
99.25%	Hexamethylenetetramine	300 ppm	2 M HCl	65.0	Tafel extrapolation, R_p and WL at 20 °C	⁸²
99.25%	Hexamethylenetetramine	600 ppm	2 M HCl	79.8	Tafel extrapolation, R_p and WL at 20 °C	⁸²
99.25%	Hexamethylenetetramine + 500 ppm CaCl ₂	300 ppm	2 M HCl	97.4	Tafel extrapolation, R_p and WL at 20 °C	⁸²
99.25%	Hexamethylenetetramine + 20 ppm KI	600 ppm	2 M HCl	99.0	Tafel extrapolation, R_p and WL at 20 °C	⁸²

99.19%	1,5-bis[2-(2-hydroxybenzylideneamino)phenoxy]-3-oxopentane	10–100 ppm	0.1 M HCl	44.0–66.2	EIS and Tafel extrapolation at 25 °C	⁸³
99.19%	1,5-bis[2-(5-chloro-2-hydroxybenzylideneamino)phenoxy]-3-oxopentane	10–100 ppm	0.1 M HCl	45.3–68.5	EIS and Tafel extrapolation at 25 °C	⁸³
99.19%	1,5-bis[2-(5-bromo-2-hydroxybenzylideneamino)phenoxy]-3-oxopentane	10–100 ppm	0.1 M HCl	56.1–74.0	EIS and Tafel extrapolation at 25 °C	⁸³
99.16%	Tetradecylpyridinium bromide	0.2–1.0 mM	1 M HCl	90.6–97.4	PDP and EIS at 20 °C	⁸⁴
99.145%	1,8- bis[2-(5-chloro-2-hydroxybenzylideneamino)phenoxy]-3,6dioxooctane (TC)	0.01–0.10 mM	0.1 M HCl	58.8–74.8	PDP at 25 °C	⁸⁵
99.145%	1,8- bis[2-(5-bromo-2-hydroxybenzylideneamino)phenoxy]-3,6dioxooctane (TB)	0.01–0.10 mM	0.1 M HCl	62.5–83.5	PDP at 25 °C	⁸⁵
99.145%	1,8- bis[2-(5-chloro-2-hydroxybenzylideneamino)phenoxy]-3,6dioxooctane (TC)	0.10 mM	0.1 M HCl	70.2	EQCM at 25 °C	⁸⁵
99.145%	1,8- bis[2-(5-bromo-2-hydroxybenzylideneamino)phenoxy]-3,6dioxooctane (TB)	0.10 mM	0.1 M HCl	85.2	EQCM at 25 °C	⁸⁵
99.145%	2-[2-aza-2-(5-methyl(2-pyridyl))vinyl]-4-bromophenol	$5 \cdot 10^{-5}$ – $5 \cdot 10^{-3}$ M	0.1 M HCl	18.1–84.3	PDP, EIS and R_p at 25 °C	⁸⁶
99.145%	2-[2-aza-2-(5-methyl(2-pyridyl))vinyl]-4-chlorophenol	$5 \cdot 10^{-5}$ – $5 \cdot 10^{-4}$ M	0.1 M HCl	22.6–78.6	PDP, EIS and R_p at 25 °C	⁸⁶
99.11%	3-amino 1,2,4 triazole	1–100 mM	1 M HCl	58.1–93.4	WL after 2 h immersion at 30 °C	⁸⁷
99.11%	3-amino 1,2,4 triazole	10–100 mM	1 M HCl	73.6–93.1	PDP	⁸⁷
99.10%	Aniline, N-benzylidene	10^{-5} – 10^{-2}	2 N HCl	54.0–88.0	Tafel extrapolation at 30 °C	⁸⁸
99.10%	Ethylenediamine , N, N' - dibenzylidene	10^{-5} – 10^{-2} M	2 N HCl	56.0–89.0	Tafel extrapolation at 30 °C	⁸⁸
99.10%	Aniline, N-(p-methoxybenzylidene)	10^{-5} – 10^{-2} M	2 N HCl	70.0–94.0	Tafel extrapolation at 30 °C	⁸⁸
99.10%	Ethylenediamine , N, N' - di(p-methoxybenzylidene)	10^{-5} – 10^{-2} M	2 N HCl	66.0–90.0	Tafel extrapolation at 30 °C	⁸⁸
99%	Benzoxazole-2-tione	$1 \cdot 10^{-5}$ – $1 \cdot 10^{-3}$ M	0.1 M HCl	47.50–68.40	PSP at 20 °C	⁸⁹

99%	Benzimidazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	60.10–80.90	PSP at 20 °C	⁸⁹
99%	5-methyl benzoxazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	52.10–73.70	PSP at 20 °C	⁸⁹
99%	5-methyl-benzimidazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	58.20–77.00	PSP at 20 °C	⁸⁹
99%	5-chloro benzoxazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	36.90–60.20	PSP at 20 °C	⁸⁹
99%	5-chloro-benzimidazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	47.40–68.30	PSP at 20 °C	⁸⁹
99%	5-nitro benzoxazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	27.50–71.20	PSP at 20 °C	⁸⁹
99%	Benzoxazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	16.8–68.4	PSP at 40-60 °C	⁸⁹
99%	Benzimidazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	4.49–80.90	PSP at 20-60 °C	⁸⁹
99%	5-methyl benzoxazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	20.60–73.70	PSP at 40-60 °C	⁸⁹
99%	5-methyl-benzimidazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	8.80–77.00	PSP at 20-60 °C	⁸⁹
99%	5-chloro benzoxazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	8.80–60.20	PSP at 40-60 °C	⁸⁹
99%	5-chloro-benzimidazole-2-tion	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	4.50–68.30	PSP at 20-60 °C	⁸⁹
99%	5-nitro benzoxazole-2-tione	$1 \cdot 10^{-5} - 1 \cdot 10^{-3} \text{ M}$	0.1 M HCl	4.50–71.20	PSP at 40-60 °C	⁸⁹
99.0%	Hexanediyl-1,6,bis-(diethyl alkyl ammonium bromide) - C ₁₀ C ₆ C ₁₀ (Et) · 2Br	$10^{-4} - 10^{-3} \text{ M}$	1 M HCl	23.3–95.1	WL and HE at 25 °C	⁹⁰
99.0%	Hexanediyl-1,6,bis-(diethyl alkyl ammonium bromide) - C ₁₂ C ₆ C ₁₂ (Et) · 2Br	$10^{-4} - 10^{-3} \text{ M}$	1 M HCl	24.7–95.4	WL and HE at 25 °C	⁹⁰
99.0%	Hexanediyl-1,6,bis-(diethyl alkyl ammonium bromide) - C ₁₄ C ₆ C ₁₄ (Et) · 2Br	$10^{-4} - 10^{-3} \text{ M}$	1 M HCl	25.3–96.5	WL and HE at 25 °C	⁹⁰
99.0%	Hexanediyl-1,6,bis-(diethyl alkyl ammonium bromide) - C ₁₆ C ₆ C ₁₆ (Et) · 2Br	$10^{-4} - 10^{-3} \text{ M}$	1 M HCl	27.6–98.2	WL and HE at 25 °C	⁹⁰
99%	Benzylidene-2-methoxy-phenyl-amine	$5 \cdot 10^{-4} - 1 \cdot 10^{-2} \text{ M}$	1 M HCl	24.98–99.80	WL, PDP and EIS at 25 °C	⁹¹
99%	2-methoxy-phenyl-4-methyl-benzylidene-amine	$5 \cdot 10^{-4} - 1 \cdot 10^{-2} \text{ M}$	1 M HCl	2.77–98.43	WL, PDP and EIS at 25 °C	⁹¹
99%	4-chloro-benzylidene-2-methoxy-phenyl-amine	$5 \cdot 10^{-4} - 1 \cdot 10^{-2} \text{ M}$	1 M HCl	47.16–96.06	WL, PDP and EIS at 25 °C	⁹¹
99%	4-nitro-benzylidene-2-methoxy-phenyl-amine	$5 \cdot 10^{-4} - 1 \cdot 10^{-2} \text{ M}$	1 M HCl	17.03–84.40	WL, PDP and EIS at 25 °C	⁹¹
99%	Benzylidene-2-methoxy-phenyl-amine	0.01 M	1 M HCl	93.41–	PDP at 25–45	⁹¹

				99.81	°C	
99%	2-methoxy-phenyl-4-methyl-benzylidene-amine	0.1 M	1 M HCl	87.91– 98.43	PDP at 25–45 °C	⁹¹
99%	4-chloro-benzylidene-2-methoxy-phenyl-amine	0.01 M	1 M HCl	93.34– 96.06	PDP at 25–45 °C	⁹¹
99%	4-nitro-benzylidene-2-methoxy-phenyl-amine	0.01 M	1 M HCl	35.60– 96.06	PDP at 25–45 °C	⁹¹
> 98.8%	3-(4-hydroxyphenyl)-1-phenylprop-2-en-1-one	$1-21 \cdot 10^{-6}$ M	0.5 M HCl	55.50– 89.44	WL, PDP, EIS and EFM at 25 °C	⁹²
> 98.8%	3-(4-hydroxyphenyl)-1-(4-nitrophenyl)prop-2-en-1-one	$1-21 \cdot 10^{-6}$ M	0.5 M HCl	68.75– 99.02	WL, PDP, EIS and EFM at 25 °C	⁹²
98.70%	Glutamic acid	0.0004 M	0.20–1.00 M HCl	2.63– 25.00	WL, HE at 30– 50 °C and thermometric	⁹³
98.70%	Glutamic acid	0.0008 M	0.20–1.00 M HCl	3.50– 41.67	WL, HE at 30– 50 °C and thermometric	⁹³
98.70%	Glutamic acid	0.0012 M	0.20–1.00 M HCl	5.25– 51.67	WL, HE at 30– 50 °C and thermometric	⁹³
98.70%	Glutamic acid	0.0016 M	0.20–1.00 M HCl	7.35– 52.00	WL, HE at 30– 50 °C and thermometric	⁹³
98.70%	Glutamic acid	0.0020 M	0.20–1.00 M HCl	9.94– 66.67	WL, HE at 30– 50 °C and thermometric	⁹³
98.5%	Polyvinyl pyrrolidone	$1 \cdot 10^{-4}$ M	2 M HCl	36.0– 69.0	HE at 30–60 °C	⁹⁴
98.5%	Polyacrylamide	$1 \cdot 10^{-4}$ M	2 M HCl	42.0– 72.0	HE at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (1: 1 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	31.0– 58.0	HE at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (1: 2 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	29.0– 56.0	HE at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (1: 3 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	23.0– 47.0	HE at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (2: 1 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	36.0– 58.0	HE at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (3: 1 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	44.0– 65.0	HE at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone	$1 \cdot 10^{-4}$ M	2 M HCl	77.0	Thermometric	⁹⁴
98.5%	Polyacrylamide	$1 \cdot 10^{-4}$ M	2 M HCl	77.0	Thermometric	⁹⁴

98.5%	Polyvinyl pyrrolidone + polyacrylamide (1: 1 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	78.0	Thermometric	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (1: 2 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	76.0	Thermometric	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (1: 3 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	14.0	Thermometric	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (2: 1 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	51.0	Thermometric	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (3: 1 mixture v/v)	$1 \cdot 10^{-4}$ M	2 M HCl	97.0	Thermometric	⁹⁴
98.5%	Polyvinyl pyrrolidone	$1 \cdot 10^{-4}$ M	0.1 M HCl	24.0–47.0	WL at 30–60 °C	⁹⁴
98.5%	Polyacrylamide	$1 \cdot 10^{-4}$ M	0.1 M HCl	35.0–49.0	WL at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (1: 1 mixture v/v)	$1 \cdot 10^{-4}$ M	0.1 M HCl	33.0–55.0	WL at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (1: 2 mixture v/v)	$1 \cdot 10^{-4}$ M	0.1 M HCl	32.0–53.0	WL at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (1: 3 mixture v/v)	$1 \cdot 10^{-4}$ M	0.1 M HCl	29.0–52.0	WL at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (2: 1 mixture v/v)	$1 \cdot 10^{-4}$ M	0.1 M HCl	34.0–57.0	WL at 30–60 °C	⁹⁴
98.5%	Polyvinyl pyrrolidone + polyacrylamide (3: 1 mixture v/v)	$1 \cdot 10^{-4}$ M	0.1 M HCl	36.0–58.0	WL at 30–60 °C	⁹⁴
98.5%	2-anisaldine-pyridine	0.2–0.6 wt.%	1–2 M HCl	18.7–98.8	WL after 24 h immersion and thermometric at 25 °C	⁹⁵
98.5%	2-anisaldine-pyridine	0.2–0.6 wt.%	3–4 M HCl	50.4–99.0	WL after 1 h immersion and thermometric at 25 °C	⁹⁵
98.5%	2-anisaldine-pyrimidine	0.2–0.6 wt.%	1–2 M HCl	65.5–98.0	WL after 24 h immersion and thermometric at 25 °C	⁹⁵
98.5%	2-anisaldine-pyrimidine	0.2–0.6 wt.%	3–4 M HCl	41.5–99.5	WL after 1 h immersion and thermometric at 25 °C	⁹⁵
98.5%	2-salicylidine-pyridine	0.2–0.6 wt.%	1–2 M HCl	90.0–98.8	WL after 24 h immersion and thermometric	⁹⁵

					at 25 °C	
98.5%	2-salicylidine-pyridine	0.2–0.6 wt.%	3–4 M HCl	62.2–99.8	WL after 1 h immersion and thermometric at 25 °C	⁹⁵
98.5%	2-salicylidine-pyrimidine	0.2–0.6 wt.%	1–2 M HCl	53.7–99.2	WL after 24 h immersion and thermometric at 25 °C	⁹⁵
98.5%	2-salicylidine-pyrimidine	0.2–0.6 wt.%	3–4 M HCl	84.8–98.8	WL after 1 h immersion and thermometric at 25 °C	⁹⁵
97%	N,N'-bis(2-hydroxybenzylidene)-1,3-diaminobenzene	0.1–10 mM	0.5 M HCl	34.19–70.61	PDP	⁹⁷
97%	N,N'-bis(4-bromobenzylidene)-1,3-diaminobenzene	0.1–10 mM	0.5 M HCl	66.50–89.76	PDP	⁹⁷
97%	N,N'-bis(2-hydroxy-5-bromobenzylidene)-1,3-diaminobenzene	0.1–10 mM	0.5 M HCl	75.38–97.34	PDP	⁹⁷
94.94%	<i>tris</i> (5-methyl-3-thioxo-1,3,4-thiadiazole) borate	20–100 ppm	1 M HCl	65.61–89.03	EIS and Tafel extrapolation at 25 °C	⁹⁸
94.44%	1-methyl-4-[4'(-H)-styryl] pyridinium iodide	10^{-5} – $2.5 \cdot 10^{-4}$ M	0.5 M HCl	45.37–95.22	PDP at 30 °C	¹⁴³
94.44%	1-methyl-4-[4'(-Cl)-styryl] pyridinium iodide	10^{-5} – $2.5 \cdot 10^{-4}$ M	0.5 M HCl	54.18–97.61	PDP at 30 °C	¹⁴³
94.44%	1-methyl-4-[4'(-H)-styryl] pyridinium iodide	10^{-5} – $2.5 \cdot 10^{-4}$ M	0.5 M HCl	57.46–98.06	PDP at 30 °C	¹⁴³
94.44%	1-methyl-4-[4'(-H)-styryl] pyridinium iodide	10^{-5} – $5 \cdot 10^{-4}$ M	0.5 M HCl	35.98–98.12	WL and EIS at 30 °C	¹⁴³
94.44%	1-methyl-4-[4'(-Cl)-styryl] pyridinium iodide	10^{-5} – $5 \cdot 10^{-4}$ M	0.5 M HCl	46.86–98.20	WL and EIS at 30 °C	¹⁴³
94.44%	1-methyl-4-[4'(-H)-styryl] pyridinium iodide	10^{-5} – $5 \cdot 10^{-4}$ M	0.5 M HCl	48.89–98.24	WL and EIS at 30 °C	¹⁴³
94.44%	1-methyl-4-[4'(-H)-styryl] pyridinium iodide	$5 \cdot 10^{-4}$ M	0.5 M HCl	82.88–98.12	WL at 30–70 °C	¹⁴³
94.44%	1-methyl-4-[4'(-Cl)-styryl] pyridinium iodide	$5 \cdot 10^{-4}$ M	0.5 M HCl	94.02–98.20	WL at 30–70 °C	¹⁴³
94.44%	1-methyl-4-[4'(-H)-styryl] pyridinium iodide	$5 \cdot 10^{-4}$ M	0.5 M HCl	82.76–98.24	WL at 30–70 °C	¹⁴³
93.68%	Gasoil sulfonate	0.1–0.7 g/L	1 M HCl	78.5–94.1	WL at 20 °C	⁹⁹

93.68%	Kerosene sulfonate	0.1–0.7 g/L	1 M HCl	67.9–90.4	WL at 20 °C	⁹⁹
93.68%	Heavy solvent sulfonate	0.1–0.7 g/L	1 M HCl	51.2–89.5	WL at 20 °C	⁹⁹
93.68%	Total gasoline sulfonate	0.1–0.7 g/L	1 M HCl	41.1–86.9	WL at 20 °C	⁹⁹
93.68%	Gasoil sulfonate	0.5 g/L	1 M HCl	93.0	Polarization and EIS at 20 °C	⁹⁹
93.68%	Kerosene sulfonate	0.5 g/L	1 M HCl	89.6	Polarization and EIS at 20 °C	⁹⁹
93.68%	Heavy solvent sulfonate	0.5 g/L	1 M HCl	88.1	Polarization and EIS at 20 °C	⁹⁹
93.68%	Total gasoline sulfonate	0.5 g/L	1 M HCl	85.1	Polarization and EIS at 20 °C	⁹⁹
93.68%	Gasoil sulfonate	0.5 g/L	1 M HCl	61.77–93.98	WL at 20–50 °C	⁹⁹
Pure	Benzotriazole	$1 \cdot 10^{-5}$ – $1 \cdot 10^{-3}$ M	0.1 M HCl	39.7–74.8	PSP at 20 °C	¹⁰⁰
Pure	5-methyl benzotriazole	$1 \cdot 10^{-5}$ – $1 \cdot 10^{-3}$ M	0.1 M HCl	44.9–78.0	PSP at 20 °C	¹⁰⁰
Pure	5-chloro benzotriazole	$1 \cdot 10^{-5}$ – $1 \cdot 10^{-3}$ M	0.1 M HCl	48.5–80.0	PSP at 20 °C	¹⁰⁰
Pure	5-nitro benzotriazole	$1 \cdot 10^{-5}$ – $1 \cdot 10^{-3}$ M	0.1 M HCl	74.8–79.0	PSP at 20 °C	¹⁰⁰
Pure	Hexadecylpyridinium bromide	20–3000 ppm	0.5 M HCl	5.44–79.02	Polarization at 25 °C	¹⁰¹
Pure	Polyoxyethylene (20) sorbitan monolaurate (Tween 20)	20–3000 ppm	0.5 M HCl	47.84–76.20	Polarization at 25 °C	¹⁰¹
Pure	Polyoxyethylene (5) sorbitan monooleate (Tween 81)	20–3000 ppm	0.5 M HCl	32.00–80.19	Polarization at 25 °C	¹⁰¹
Pure	N-benzylidene benzylamine	0.001–0.50 vol.%	1 M HCl	60.4–99.3	WL after 1 h immersion at 35 °C	¹⁰²
Pure	Benzenemethanamine- α -methyl-N-(phenylmethylene)	0.001–0.50 vol.%	1 M HCl	64.0–99.5	WL after 1 h immersion at 35 °C	¹⁰²
Pure	N-benzylidene benzylamine	0.5 vol.%	1 M HCl	95.5–99.3	WL after 1 h immersion at 35–65 °C	¹⁰²
Pure	Benzenemethanamine- α -methyl-N-(phenylmethylene)	0.5 vol.%	1 M HCl	96.5–99.5	WL after 1 h immersion at 35–65 °C	¹⁰²

Pure	N-benzylidene benzylamine	0.001 vol.%	1 M HCl	56.4	GSP at 35 °C	¹⁰²
Pure	N-benzylidene benzylamine	0.05 vol.%	1 M HCl	95.8	GSP at 35 °C	¹⁰²
Pure	Benzenemethanamine- α -methyl-N-(phenylmethylene)	0.001 vol.%	1 M HCl	80.1	GSP at 35 °C	¹⁰²
Pure	Benzenemethanamine- α -methyl-N-(phenylmethylene)	0.05 vol.%	1 M HCl	97.4	GSP at 35 °C	¹⁰²
Pure	N-benzylidene benzylamine	0.001–0.10 vol.%	1 M HCl	59.2–91.9	EIS at 35 °C	¹⁰²
Pure	Benzenemethanamine- α -methyl-N-(phenylmethylene)	0.001–0.10 vol.%	1 M HCl	64.4–94.1	EIS at 35 °C	¹⁰²
Al-pure	<i>o</i> -chloroaniline-N-benzylidene	0.001–0.50 vol.%	1 M HCl	70.3–99.4	WL and GSP at 35 °C	¹⁰³
Al-pure	<i>o</i> -chloroaniline-N-benzylidene	0.50 vol.%	1 M HCl	96.6–99.4	WL at 35–65 °C	¹⁰³
Al-pure	<i>o</i> -chloroaniline-N-benzylidene	0.001–0.10 vol.%	1 M HCl	68.2–94.2	EIS at 35 °C	¹⁰³
Al-pure	<i>o</i> -anisidine-N-benzylidene	$1 \cdot 10^{-4}$ – $8 \cdot 10^{-1}$ w/v %	1 M HCl	7.27–99.78	WL, EIS and polarisation at 35 °C	¹⁰⁴
Al-pure	<i>p</i> -anisidine-N-benzylidene	$1 \cdot 10^{-4}$ – $8 \cdot 10^{-1}$ w/v %	1 M HCl	43.17–99.78	WL, EIS and polarisation at 35 °C	¹⁰⁴
2S (99.489%)	Xylenol orange	2–8 mM	0.6 M HCl	63.13–83.92	WL after 24 h immersion at 28 °C	¹⁰⁵
2S (99.489%)	Xylenol orange	8 mM	0.5 M HCl	76.70–92.15	WL after 24 h immersion at 40–60 °C	¹⁰⁵
2S (99.489%)	Xylenol orange	8 mM	0.4 M HCl	87.06	WL after 24 h immersion and PDP	¹⁰⁵
3SR (98.60%)	Polyethylene glycol	10^{-4} M	0.1 M HCl	15–65	WL and HE at 30–60 °C	¹⁰⁶
3SR (98.60%)	Polyvinylpyrrolidone	10^{-4} M	0.1 M HCl	29–73	WL and HE at 30–60 °C	¹⁰⁶
3SR (98.60%)	Polyethylene glycol:Polyvinylpyrrolidone (1:1 v/v)	10^{-4} M	0.1 M HCl	24–66	WL and HE at 30–60 °C	¹⁰⁶
3SR (98.60%)	Polyethylene glycol:Polyvinylpyrrolidone (1:2 v/v)	10^{-4} M	0.1 M HCl	36–73	WL and HE at 30–60 °C	¹⁰⁶
3SR (98.60%)	Polyethylene glycol:Polyvinylpyrrolidone (1:3 v/v)	10^{-4} M	0.1 M HCl	42–80	WL and HE at 30–60 °C	¹⁰⁶
3SR (98.60%)	Polyethylene glycol:Polyvinylpyrrolidone (2:1 v/v)	10^{-4} M	0.1 M HCl	21–56	WL and HE at 30–60 °C	¹⁰⁶
3SR	Polyethylene glycol:Polyvinylpyrrolidone (3:1 v/v)	10^{-4} M	0.1 M HCl	20–53	WL and HE at	¹⁰⁶

(98.60%)					30–60 °C	
AA1060	Adenine	2–10 mM	0.1 M HCl	71.73–90.58	WL at 30 °C	¹⁰⁷
AA1060	Guanine	2–10 mM	0.1 M HCl	81.65–96.53	WL at 30 °C	¹⁰⁷
AA1060	Hypoxanthine	2–10 mM	0.1 M HCl	82.84–92.23	WL at 30 °C	¹⁰⁷
AA1060	Adenine	2–10 mM	0.1 M HCl	48.27–72.58	WL at 60 °C	¹⁰⁷
AA1060	Guanine	2–10 mM	0.1 M HCl	62.28–73.50	WL at 60 °C	¹⁰⁷
AA1060	Hypoxanthine	2–10 mM	0.1 M HCl	55.79–71.01	WL at 60 °C	¹⁰⁷
AA1060	Adenine	10 mM	0.1 M HCl	88.87	PDP and EIS at 30 °C	¹⁰⁷
AA1060	Guanine	10 mM	0.1 M HCl	94.37	PDP and EIS at 30 °C	¹⁰⁷
AA1060	Hypoxanthine	10 mM	0.1 M HCl	91.41	PDP and EIS at 30 °C	¹⁰⁷
AA1060 (98.8% Al)	Crystal violet dye	$1 \cdot 10^{-3}$ mM	1 M HCl	83.6	WL after 2 h immersion in aerated solutions	¹⁰⁸
AA1060 (98.8% Al)	Crystal violet dye + $1 \cdot 10^{-8}$ mM KI	$1 \cdot 10^{-3}$ M	1 M HCl	85.1	WL after 2 h immersion in aerated solutions	¹⁰⁸
AA1060 (98.8% Al)	Crystal violet dye + $1 \cdot 10^{-6}$ mM KI	$1 \cdot 10^{-3}$ M	1 M HCl	89.2	WL after 2 h immersion in aerated solutions	¹⁰⁸
AA1060 (98.8% Al)	Malachite green dye	$1 \cdot 10^{-2}$ mM	1.0 M HCl	42.8	WL after 2 h immersion in aerated solutions	¹⁰⁹
AA1060 (98.8% Al)	Malachite green dye + $1 \cdot 10^{-5}$ mM KI	$1 \cdot 10^{-2}$ mM	1.0 M HCl	89.3	WL after 2 h immersion in aerated solutions	¹⁰⁹
AA1060 (98.8% Al)	Malachite green dye + $1 \cdot 10^{-3}$ mM KI	$1 \cdot 10^{-2}$ mM	1.0 M HCl	77.9	WL after 2 h immersion in aerated solutions	¹⁰⁹
AA1060	2,3-diaminonaphthalene	$6 \cdot 10^{-5}$ – $1 \cdot 10^{-4}$ M	1 M HCl	44.3–54.9	HE at 30 °C	¹¹⁰
AA1060	2,3-diaminonaphthalene	$6 \cdot 10^{-5}$ – $1 \cdot 10^{-4}$ M	1 M HCl	27.90–39.10	HE at 40 °C	¹¹⁰

AA1060	2,3-diaminonaphthalene + 5 mM KI	$6 \cdot 10^{-5}$ – $1 \cdot 10^{-4}$ M	1 M HCl	55.40–67.40	HE at 30 °C	¹¹⁰
AA1060	2,3-diaminonaphthalene + 5 mM KI	$6 \cdot 10^{-5}$ – $1 \cdot 10^{-4}$ M	1 M HCl	41.00–47.97	HE at 40 °C	¹¹⁰
AA1060	Hydroxypropyl methylcellulose	500–2000 mg/L	1 M HCl	5.87–85.12*	WL after 1 day of immersion at 28 °C	¹¹²
AA1060	Hydroxyethylcellulose	$5 \cdot 10^{-4}$ – $2.5 \cdot 10^{-3}$ M	1.0 M HCl	27.74–57.32	WL	¹¹³
AA1060	Hydroxyethylcellulose	$5 \cdot 10^{-4}$ – $2.5 \cdot 10^{-3}$ M	1.5 M HCl	35.89–58.16	WL	¹¹³
AA1060	Acetone oxime	0.2–2.0 mM	1.0 M HCl	48.8–89.2	PDP an EIS after 2 h immersion at 20 °C	¹¹⁴
AA1060	2-butanone oxime	0.2–2.0 mM	1.0 M HCl	53.4–93.5	PDP an EIS after 2 h immersion at 20 °C	¹¹⁴
AA1060	Cyclohexanone oxime	0.2–2.0 mM	1.0 M HCl	63.7–98.4	PDP an EIS after 2 h immersion at 20 °C	¹¹⁴
AA1060	5-ethyl 4-(4-methoxyphenyl)-6-methyl-2-thioxo-1,2,3,4-tetrahydropyrimidine-5-carboxylate	100–500 ppm	1 N HCl	47.22–93.39	WL and PDP at 35 °C	¹¹⁵
AA1060	o-phenanthroline	0.2–2.0 mM	1 M HCl	33.3–98.2	WL, PDP and EIS at 20 °C	¹¹⁶
AA1060	Methylene blue dye	10^{-5} – $5 \cdot 10^{-3}$ M	2 M HCl	35.14–59.46	WL at 30°C	¹¹⁷
AA1060	Methylene blue dye	10^{-5} – $5 \cdot 10^{-3}$ M	2 M HCl	12.25–40.15	WL at 60°C	¹¹⁷
AA1060	Methylene blue dye + $5 \cdot 10^{-4}$ M KI	$5 \cdot 10^{-3}$ M	2 M HCl	79.74	WL at 30°C	¹¹⁷
AA1060	Methylene blue dye + $5 \cdot 10^{-4}$ M KI	$5 \cdot 10^{-3}$ M	2 M HCl	61.23	WL at 60°C	¹¹⁷
AA1060	Methylene blue dye + $5 \cdot 10^{-4}$ M KBr	$5 \cdot 10^{-3}$ M	2 M HCl	67.57	WL at 30°C	¹¹⁷
AA1060	Methylene blue dye + $5 \cdot 10^{-4}$ M KBr	$5 \cdot 10^{-3}$ M	2 M HCl	48.31	WL at 60°C	¹¹⁷
AA1060	Methylene blue dye + $5 \cdot 10^{-4}$ M KCl	$5 \cdot 10^{-3}$ M	2 M HCl	62.16	WL at 30°C	¹¹⁷
AA1060	Methylene blue dye + $5 \cdot 10^{-4}$ M KCl	$5 \cdot 10^{-3}$ M	2 M HCl	42.87	WL at 60°C	¹¹⁷
AA2024	1-(2H)-phtalazinone	0.25–1 mM	1 M HCl	25.0–70.0	EIS and PDP at 30 °C	¹¹⁹
AA2024	1-(2H)-phtalazinone + 0.1% KI	0.25–1 mM	1 M HCl	56.0–78.0	EIS and PDP at 30 °C	¹¹⁹
AA2024	Tryptophan	0.5–8.0 mM	1 M HCl	32.91–88.37	WL after 2 h of immersion and	¹²⁰

					polarisation	
AA3102	2-hydroxyacetophenone-etansulphonylhydrazone	10–50 ppm	0.1 M HCl	28.0–91.0	HE and EIS at room temperature	¹²¹
AA3102	Salicylaldehyde-etansulphonylhydrazone	10–50 ppm	0.1 M HCl	51.0–95.0	HE and EIS at room temperature	¹²¹
AA3102	5-bromosalicylaldehyde-etansulphonylhydrazone	10–50 ppm	0.1 M HCl	69.0–100.0	HE and EIS at room temperature	¹²¹
AA3102	5-chlorosalicylaldehyde-etansulphonylaldehyde	10–50 ppm	0.1 M HCl	57.0–94.0	HE and EIS at room temperature	¹²¹
AA6061	N,N'-bis(salicylidene)-1,4-diaminobutane	25–100 ppm	1 M HCl	65.4–75.0	WL, PDP and EIS at 30 °C	¹²²
AA6061	N,N'-bis(3-methoxy salicylidene)-1,4-diaminobutane	25–100 ppm	1 M HCl	69.5–79.0	WL, PDP and EIS at 30 °C	¹²²
A-63400	Nicotinic acid hydrazide	10–250 ppm	1 M HCl	70.39–96.64	WL after 4 h of immersion, PDP and EIS at 30 °C	¹²³
AA6061	N,N'-bis(salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	74.0–87.0	WL after 2 h of immersion at 30 °C	¹²⁴
AA6061	N,N'-bis(salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	56.0–78.0	WL after 2 h of immersion at 40 °C	¹²⁴
AA6061	N,N'-bis(salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	49.0–73.0	WL after 2 h of immersion at 50 °C	¹²⁴
AA6061	N,N'-bis(salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	45.0–69.0	WL after 2 h of immersion at 60 °C	¹²⁴
AA6061	N,N'-bis(3-methoxy salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	75.0–94.0	WL after 2 h of immersion at 30 °C	¹²⁴
AA6061	N,N'-bis(3-methoxy salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	62.0–88.0	WL after 2 h of immersion at 40 °C	¹²⁴
AA6061	N,N'-bis(3-methoxy salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	57.0–81.0	WL after 2 h of immersion at 50 °C	¹²⁴
AA6061	N,N'-bis(3-methoxy salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	52.0–75.0	WL after 2 h of immersion at 60 °C	¹²⁴
AA6063	N,N'-bis(salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	71.0–84.0	WL after 2 h of immersion	¹²⁴

					at 30 °C	
AA6063	N,N'-bis(salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	58.0–79.0	WL after 2 h of immersion at 40 °C	¹²⁴
AA6063	N,N'-bis(salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	55.0–74.0	WL after 2 h of immersion at 50 °C	¹²⁴
AA6063	N,N'-bis(salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	45.0–69.0	WL after 2 h of immersion at 60 °C	¹²⁴
AA6063	N,N'-bis(3-methoxy salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	72.0–86.0	WL after 2 h of immersion at 30 °C	¹²⁴
AA6063	N,N'-bis(3-methoxy salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	57.0–81.0	WL after 2 h of immersion at 40 °C	¹²⁴
AA6063	N,N'-bis(3-methoxy salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	53.0–78.0	WL after 2 h of immersion at 50 °C	¹²⁴
AA6063	N,N'-bis(3-methoxy salicylidene)-1,4-diaminophenelyne	100–500 ppm	1 M HCl	45.0–69.0	WL after 2 h of immersion at 60 °C	¹²⁴
E-195 (78.53% Al)	1-buten-3-ol	0.2–20 mM	1 N HCl	14–57	PDP	¹²⁵
E-195 (78.53% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N HCl	8–67	PDP	¹²⁵
E-195 (78.53% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N HCl	17–53	PDP	¹²⁵
E-195 (78.53% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N HCl	7–33	PDP	¹²⁵
E-195 (78.53% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N HCl	17–67	PDP	¹²⁵
E-195 (78.53% Al)	5-hexen-1-ol	0.2–20 mM	1 N HCl	7–33	PDP	¹²⁵
E-150 (83.25% Al)	1-buten-3-ol	0.2–20 mM	1 N HCl	19–21	PDP	¹²⁵
E-150 (83.25% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N HCl	60–68	PDP	¹²⁵
E-150 (83.25% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N HCl	10–30	PDP	¹²⁵

Al)						
E-150 (83.25% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N HCl	36–48	PDP	125
E-150 (83.25% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N HCl	50–82	PDP	125
E-150 (83.25% Al)	5-hexen-1-ol	0.2–20 mM	1 N HCl	37–50	PDP	125
E-140 (85.25% Al)	1-buten-3-ol	0.2–20 mM	1 N HCl	10–20	PDP	125
E-140 (85.25% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N HCl	30–37	PDP	125
E-140 (85.25% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N HCl	8–25	PDP	125
E-140 (85.25% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N HCl	17–30	PDP	125
E-140 (85.25% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N HCl	37–68	PDP	125
E-140 (85.25% Al)	5-hexen-1-ol	0.2–20 mM	1 N HCl	11–21	PDP	125
E-160 (85.70% Al)	1-buten-3-ol	0.2–20 mM	1 N HCl	33–42	PDP	125
E-160 (85.70% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N HCl	24–42	PDP	125
E-160 (85.70% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N HCl	25–31	PDP	125
E-160 (85.70% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N HCl	35–42	PDP	125
E-160 (85.70% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N HCl	53–65	PDP	125
E-160 (85.70% Al)	5-hexen-1-ol	0.2–20 mM	1 N HCl	40–54	PDP	125
E-171 (88.05%)	1-buten-3-ol	0.2–20 mM	1 N HCl	11–28	PDP	125

Al)						
E-171 (88.05% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N HCl	21–82	PDP	125
E-171 (88.05% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N HCl	21–48	PDP	125
E-171 (88.05% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N HCl	28–40	PDP	125
E-171 (88.05% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N HCl	49–76	PDP	125
E-171 (88.05% Al)	5-hexen-1-ol	0.2–20 mM	1 N HCl	28–60	PDP	125
E-110 (90.21% Al)	1-buten-3-ol	0.2–20 mM	1 N HCl	27–39	PDP	125
E-110 (90.21% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N HCl	32–42	PDP	125
E-110 (90.21% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N HCl	20–27	PDP	125
E-110 (90.21% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N HCl	49–54	PDP	125
E-110 (90.21% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N HCl	64–80	PDP	125
E-110 (90.21% Al)	5-hexen-1-ol	0.2–20 mM	1 N HCl	27–49	PDP	125
Pure	1-buten-3-ol	20 mM	1 N HCl	50	PDP	125
Pure	2-methyl-3-butyn-2-ol	20 mM	1 N HCl	75	PDP	125
Pure	3-methyl-2-buten-1-ol	20 mM	1 N HCl	52	PDP	125
Pure	3-methyl-3-buten-1-ol	20 mM	1 N HCl	68	PDP	125
Pure	3-methyl-1-pentyn-3-ol	20 mM	1 N HCl	94	PDP	125
Pure	5-hexen-1-ol	20 mM	1 N HCl	60	PDP	125
Al-8%Si- 3%Cu	Tolyltriazole	2–20 mM	1 M HCl (pH = 0.5)	75.0– 97.0	PDP and R_p at 15–35 °C	127
Al-4%Cu	Tolyltriazole	2–20 mM	1 M HCl	42.0–	PDP and R_p at	127

			(pH = 0.5)	82.0	15–35 °C	
Al-12%Cu	Tolyltriazole	2–20 mM	1 M HCl (pH = 0.5)	66.0– 87.0	PDP and R_p at 15–35 °C	¹²⁷
Al-12%Cu- 4%Fe	Tolyltriazole	2–20 mM	1 M HCl (pH = 0.5)	47.0– 92.0	PDP and R_p at 15–35 °C	¹²⁷
99.89%	Dodecyl phenol ethoxidate	$2 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	9.51– 94.76	PDP and EIS at 30 °C	¹²⁸
93.91% (Al + 6% Cu)	Dodecyl phenol ethoxidate	$2 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	11.22– 96.25	PDP and EIS at 30 °C	¹²⁸
93.91% (Al + 6% Si)	Dodecyl phenol ethoxidate	$2 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	13.75– 97.50	PDP and EIS at 30 °C	¹²⁸
99.89%	Dodecyl phenol ethoxidate	$2 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	49.05– 94.32	EIS at 10–60 °C	¹²⁸
93.91% (Al + 6% Cu)	Dodecyl phenol ethoxidate	$2 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	60.00– 96.14	EIS at 10–60 °C	¹²⁸
93.91% (Al + 6% Si)	Dodecyl phenol ethoxidate	$2 \cdot 10^{-4}$ – 10^{-2} M	1 M HCl	64.82– 97.02	EIS at 10–60 °C	¹²⁸
94.85% (Al–3Mg)	4-(methoxymethyl)-1,6-dimethyl-2-oxo-1,2-dihydropyridine-3-carbonitrile	$1 \cdot 10^{-6}$ – $1 \cdot 10^{-3}$ M	0.5 M HCl	53.0– 96.8	WL after 3 h of immersion, PDP and R_p at 25 °C	¹²⁹
94.85% (Al–3Mg)	4-amino-3,5-bis[6-(methoxymethyl)-3,4-dimethyl-2-oxo-1,2 dihydropyridine-1-yl]-1,2,4-triazole-2(H)	$1 \cdot 10^{-6}$ – $1 \cdot 10^{-3}$ M	0.5 M HCl	59.1– 97.8	WL after 3 h of immersion, PDP and R_p at 25 °C	¹²⁹
94.85% (Al–3Mg)	4-(methoxymethyl)-1,6-dimethyl-2-oxo-1,2-dihydropyridine-3-carbonitrile	$1 \cdot 10^{-6}$ – $1 \cdot 10^{-3}$ M	1.0 M HCl	48.0– 97.2	WL after 3 h of immersion, PDP and R_p at 25 °C	¹²⁹
94.85% (Al–3Mg)	4-amino-3,5-bis[6-(methoxymethyl)-3,4-dimethyl-2-oxo-1,2 dihydropyridine-1-yl]-1,2,4-triazole-2(H)	$1 \cdot 10^{-6}$ – $1 \cdot 10^{-3}$ M	1.0 M HCl	83.0– 96.5	WL after 3 h of immersion, PDP and R_p at 25 °C	¹²⁹
99.89%	Dodecyl benzene sulphonate	$2 \cdot 10^{-4}$ – $10 \cdot 10^{-3}$ M	1 M HCl	5.40– 93.00	WL after 3 h of immersion, PDP and R_p at 25 °C	¹³⁰
Al +6% Cu	Dodecyl benzene sulphonate	$2 \cdot 10^{-4}$ – $10 \cdot 10^{-3}$ M	1 M HCl	8.26– 94.24	WL, PDP and EIS at 30 °C	¹³⁰
Al + 6% Si	Dodecyl benzene sulphonate	$2 \cdot 10^{-4}$ – $10 \cdot 10^{-3}$ M	1 M HCl	11.00– 95.75	WL, PDP and EIS at 30 °C	¹³⁰

99.89%	Dodecyl benzene sulphonate	$2 \cdot 10^{-3}$ M	1 M HCl	39.04–91.24	WL, PDP and EIS at 10–60 °C	¹³⁰
Al +6% Cu	Dodecyl benzene sulphonate	$2 \cdot 10^{-3}$ M	1 M HCl	42.52–94.00	WL, PDP and EIS at 10–60 °C	¹³⁰
Al + 6% Si	Dodecyl benzene sulphonate	$2 \cdot 10^{-3}$ M	1 M HCl	49.48–95.18	WL, PDP and EIS at 10–60 °C	¹³⁰
Al (89.165%) + 10.502% Si	4-amino-1,5-dimethyl-2-phenyl-1H-pyrazol-3(2H)-one	$1 \cdot 10^{-6}$ – $5 \cdot 10^{-4}$ M	1 M HCl	7.09–82.8	PDP at 25 °C	¹³¹
Al (89.165%) + 10.502% Si	1,5-dimethyl-2-phenyl-1Hpyrazol-3(2H)-one	$1 \cdot 10^{-6}$ – $5 \cdot 10^{-4}$ M	1 M HCl	20.5–90.3	PDP at 25 °C	¹³¹
Al (89.165%) + 10.502% Si	4-amino-1,5-dimethyl-2-phenyl-1H-pyrazol-3(2H)-one	$1 \cdot 10^{-5}$ – $5 \cdot 10^{-4}$ M	1 M HCl	25.3–68.9	EIS at 25 °C	¹³¹
Al (89.165%) + 10.502% Si	1,5-dimethyl-2-phenyl-1Hpyrazol-3(2H)-one	$1 \cdot 10^{-5}$ – $5 \cdot 10^{-4}$ M	1 M HCl	15.8–64.9	EIS at 25 °C	¹³¹
NG	5-benzylidene-1-methyl-2-methylthioimidazole-4-one	$1 \cdot 10^{-6}$ – $5 \cdot 10^{-4}$ M	0.5 M HCl	49.1–82.5	WL, HE and R_p at 30 °C	¹³²
NG	5-benzylidene-1-methyl-2-methylthioimidazole-4-one	$1 \cdot 10^{-6}$ M	0.5 M HCl	50.0–60.0	WL at 30–60 °C	¹³²
NG	Diphenylthiocarbazone	$1 \cdot 10^{-6}$ – $1 \cdot 10^{-2}$ M	0.5 M HCl	32.50–82.02	WL at 30 °C	¹³³
NG	Diphenyl carbazone	$1 \cdot 10^{-6}$ – $1 \cdot 10^{-2}$ M	0.5 M HCl	15.60–56.40	WL at 30 °C	¹³³
NG	1-phenyl-1H-tetrazole-5-thiol	10^{-4} – 10^{-2} M	1 M HCl	58.21–99.11	WL, PDP and EIS at 25 °C	¹³⁴
NG	1-phenyl-1H-tetrazole	10^{-4} – 10^{-2} M	1 M HCl	55.72–97.12	WL, PDP and EIS at 25 °C	¹³⁴
NG	1H-tetrazol-5-amine	10^{-4} – 10^{-2} M	1 M HCl	43.62–94.92	WL, PDP and EIS at 25 °C	¹³⁴
NG	1H-tetrazole	10^{-4} – 10^{-2} M	1 M HCl	30.73–94.03	WL, PDP and EIS at 25 °C	¹³⁴

NG	Polyvinyl pyrrolidone	$2 \cdot 10^{-5} - 1 \cdot 10^{-4}$ M	2 M HCl	36.0–58.0	HE at 30 °C	¹³⁵
NG	Polyvinyl pyrrolidone	$2 \cdot 10^{-5} - 1 \cdot 10^{-4}$ M	2 M HCl	33.0–54.0	HE at 40 °C	¹³⁵
NG	Polyvinyl pyrrolidone	$2 \cdot 10^{-5} - 1 \cdot 10^{-4}$ M	2 M HCl	20.0–50.0	HE at 50 °C	¹³⁵
NG	Polyvinyl pyrrolidone	$2 \cdot 10^{-5} - 1 \cdot 10^{-4}$ M	2 M HCl	19.0–43.0	HE at 60 °C	¹³⁵
NG	Polyvinyl pyrrolidone + 6 mM KI	$2 \cdot 10^{-5} - 1 \cdot 10^{-4}$ M	2 M HCl	47.0–71.0	HE at 30 °C	¹³⁵
NG	Polyvinyl pyrrolidone + 6 mM KI	$2 \cdot 10^{-5} - 1 \cdot 10^{-4}$ M	2 M HCl	41.0–61.0	HE at 40 °C	¹³⁵
NG	Polyvinyl pyrrolidone + 6 mM KI	$2 \cdot 10^{-5} - 1 \cdot 10^{-4}$ M	2 M HCl	28.0–58.0	HE at 50 °C	¹³⁵
NG	Polyvinyl pyrrolidone + 6 mM KI	$2 \cdot 10^{-5} - 1 \cdot 10^{-4}$ M	2 M HCl	25.0–55.0	HE at 60 °C	¹³⁵
Cold rolled aluminium	2-nonyl-1,3-imidazoline	500 ppm	1 M HCl	97.63	PDP at 30 °C	¹³⁶
Cold rolled aluminium	2-undecyl-1,3-imidazoline	500 ppm	1 M HCl	98.02	PDP at 30 °C	¹³⁶
Cold rolled aluminium	2-pentadecyl-1,3-imidazoline	500 ppm	1 M HCl	93.91	PDP at 30 °C	¹³⁶
Cold rolled aluminium	2-heptadecyl-1,3-imidazoline	500 ppm	1 M HCl	93.25	PDP at 30 °C	¹³⁶
Cold rolled aluminium	2-undecyl-1,3-imidazoline	25–500 ppm	1 M HCl	70.19–93.43	EIS at 30 °C	¹³⁶
99.99%	Polyacrylic acid	$1 \cdot 10^{-5} - 1 \cdot 10^{-3}$ M	0.5 M H ₂ SO ₄	19.0–58.0	EIS and PDP at 30 °C	¹³⁷
99.99%	Polyacrylic acid + 0.5–5.0 mM KI	$1 \cdot 10^{-3}$ M	0.5 M H ₂ SO ₄	39.0–87.0	EIS and PDP at 30 °C	¹³⁷
99.89%	Polyoxyethylene 20 mono oleate	0.1–1 mM	1 M H ₂ SO ₄	12.029–40.201	WL and PDP at 25 °C	⁶⁵
99.89%	Polyoxyethylene 40 mono oleate	0.1–1 mM	1 M H ₂ SO ₄	23.991–24.307	WL and PDP at 25 °C	⁶⁵
99.89%	Polyoxyethylene 80 mono oleate	0.1–1 mM	1 M H ₂ SO ₄	39.999–61.307	WL and PDP at 25 °C	⁶⁵
99.3%	Propargyl alcohol	1.25–10 mM	0.5 M H ₂ SO ₄	33.1–70.7	EIS and PDP at room temperature	¹³⁹
99.3%	Propargyl alcohol + 0.01% Zn ²⁺	1.25–10 mM	0.5 M H ₂ SO ₄	59.2–81.3	EIS and PDP at room temperature	¹³⁹

98.99%	Zinc gluconate	0.5–2.0 w/v %	0.5 M H ₂ SO ₄	61.48–99.99*	PDP and R _p at 28 °C	¹⁴⁰
98.5%	N-(4-N, N-dimethylaminobenzal)- <i>p</i> -anisidine	0.1–0.7 wt.%	0.1–0.5 N H ₂ SO ₄	59.45–77.74	WL after 168 h immersion	¹⁴¹
98.5%	N-(4-N, N-dimethylaminobenzal)- <i>p</i> -toluidine	0.1–0.7 wt.%	0.1–0.5 N H ₂ SO ₄	51.55–72.76	WL after 168 h immersion	¹⁴¹
98.5%	N-(4-N, N-dimethylaminobenzal)-2,4-dinitroaniline	0.1–0.7 wt.%	0.1–0.5 N H ₂ SO ₄	45.01–67.77	WL after 168 h immersion	¹⁴¹
98.5%	N-(4-N, N-dimethylaminobenzal)- <i>p</i> -anisidine + 2 N Na ₂ SO ₄	0.1–0.7 wt.%	1.0–2.0 N H ₂ SO ₄	64.33–90.20	WL after 120 h immersion	¹⁴¹
98.5%	N-(4-N, N-dimethylaminobenzal)- <i>p</i> -toluidine + 2 N Na ₂ SO ₄	0.1–0.7 wt.%	1.0–2.0 N H ₂ SO ₄	60.32–86.38	WL after 120 h immersion	¹⁴¹
98.5%	N-(4-N, N-dimethylaminobenzal)-2,4-dinitroaniline + 2 N Na ₂ SO ₄	0.1–0.7 wt.%	1.0–2.0 N H ₂ SO ₄	53.37–80.56	WL after 120 h immersion	¹⁴¹
3SR (98.5076%)	2-[(3-nitrobenzylidene) amino]	1 · 10 ⁻² M	2 M H ₂ SO ₄	63.81	WL and HE at 30 °C	¹⁴²
94.44%	1-methyl-4-[4'(-H)-styryl] pyridinium iodide	10 ⁻⁴ M	0.5 M H ₂ SO ₄	19.44	WL at 30 °C	¹⁴³
94.44%	1-methyl-4-[4'(-Cl)-styryl] pyridinium iodide	10 ⁻⁴ M	0.5 M H ₂ SO ₄	6.94	WL at 30 °C	¹⁴³
94.44%	1-methyl-4-[4'(-H)-styryl] pyridinium iodide	10 ⁻⁴ M	0.5 M H ₂ SO ₄	38.80	WL at 30 °C	¹⁴³
AA1005	3,3'-(1,4-phenylene)bis(2-imino-2,3-dihydrobenzo[d]oxazole-5,3-yl)bis(4-thylbenzenesulfonate)	0.001–0.01 M	0.5 M H ₂ SO ₄	8.10–61.43	Tafel extrapolation at 25 °C	¹⁴⁴
AA1005	3,3'-(1,4-phenylene)bis(2-imino-2,3-dihydrobenzo[d]oxazole-5,3-yl)bis(4-thylbenzenesulfonate)	2 · 10 ⁻⁴ –1 · 10 ⁻³ M	0.5 M H ₂ SO ₄	17.80–65.06	WL and EIS at 25 °C	¹⁴⁴
AA1005	3,3'-(1,4-phenylene)bis(2-imino-2,3-dihydrobenzo[d]oxazole-5,3-yl)bis(4-thylbenzenesulfonate)	2 · 10 ⁻⁴ –1 · 10 ⁻³ M	0.5 M H ₂ SO ₄	28.09–64.71	WL at 35 °C	¹⁴⁴
AA1005	3,3'-(1,4-phenylene)bis(2-imino-2,3-dihydrobenzo[d]oxazole-5,3-yl)bis(4-thylbenzenesulfonate)	2 · 10 ⁻⁴ –1 · 10 ⁻³ M	0.5 M H ₂ SO ₄	24.36–68.32	WL at 45 °C	¹⁴⁴
AA 1060 (98.5%)	2-acetylphenothiazine	0.5 M	0.5 M H ₂ SO ₄	65.55–77.18	WL and Thermometric at 30–60 °C	¹⁴⁶
AA 1060 (98.5%)	2-acetylphenothiazine + 0.05 M KI	0.5 M	0.5 M H ₂ SO ₄	94.44–96.23	WL and Thermometric at 30–60 °C	¹⁴⁶
AA 1060 (98.5%)	2-acetylphenothiazine + 0.05 M KBr	0.5 M	0.5 M H ₂ SO ₄	88.33–92.47	WL and Thermometric at 30–60 °C	¹⁴⁶
AA 1060 (98.5%)	2-acetylphenothiazine + 0.05 M KCl	0.5 M	0.5 M H ₂ SO ₄	78.88–92.47	WL and Thermometric at 30–60 °C	¹⁴⁶
AA1060	Hydroxypropyl methylcellulose	500–2000 mg/L	0.5 M H ₂ SO ₄	28.57–60.44*	WL after 5 days	¹⁴⁷

					immersion	
AA1060	Hydroxypropyl methylcellulose + 500 mg/L KI	2000 mg/L	0.5 M H ₂ SO ₄	54.67*	EIS at 29 °C	¹⁴⁷
AA1060	Hydroxyethyl cellulose	500–2000 mg/L	0.5 M H ₂ SO ₄	35.82–84.18	WL after 5 days immersion and EIS	¹⁴⁸
AA1060	Hydroxyethyl cellulose + 500 mg/L KI	2000 mg/L	0.5 M H ₂ SO ₄	25.43	EIS	¹⁴⁸
AA1060	Poly(methacrylic acid) (PMAA)	50–1000 ppm	0.5 M H ₂ SO ₄	8.2–48.7	PDP and EIS at 25 °C	¹⁴⁹
AA1060	Poly(methacrylic acid) + 2.5 mM KI	1000 ppm	0.5 M H ₂ SO ₄	64.7	PDP and EIS at 25 °C	¹⁴⁹
AA1060	Poly(methacrylic acid) + 5.0 mM KI	1000 ppm	0.5 M H ₂ SO ₄	82.6	PDP and EIS at 25 °C	¹⁴⁹
AA1060	Hydroxypropyl methylcellulose	500–2000 mg/L	0.5 M H ₂ SO ₄	19.05–57.14*	WL after 1 day of immersion at 28 °C	¹¹²
AA2024	N,N'-((2E,2'E)-2,2'-(1,4-phenylenebis(methanylylidene))bis(hydrazinecarbonothioyl))bis(2-oxo-2H-chromene-3-carboxamide)	0.10–0.50 mM	1 M H ₂ SO ₄	67.0–74.9	PDP and EIS at 30 °C	¹⁵⁰
AA2024	N,N'-((2E,2'E)-2,2'-(1,4-phenylenebis(methanylylidene))bis(hydrazinecarbonothioyl))bis(2-oxo-2H-chromene-3-carboxamide) + 6.02 mM KI	0.10–0.50 mM	1 M H ₂ SO ₄	79.3–87.0	PDP and EIS at 30 °C	¹⁵⁰
AA6061	Poly(1-vinyl-3-dodecylimidazolium hexafluorophosphate)	10–100 ppm	0.1 M H ₂ SO ₄	37.0–61.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-octylimidazolium hexafluorophosphate)	10–100 ppm	0.1 M H ₂ SO ₄	28.0–53.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-butylimidazolium hexafluorophosphate)	10–100 ppm	0.1 M H ₂ SO ₄	25.0–50.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-dodecylimidazolium hexafluorophosphate)	10–100 ppm	0.3 M H ₂ SO ₄	28.0–53.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-octylimidazolium hexafluorophosphate)	10–100 ppm	0.3 M H ₂ SO ₄	24.0–39.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-butylimidazolium hexafluorophosphate)	10–100 ppm	0.3 M H ₂ SO ₄	24.0–38.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-dodecylimidazolium hexafluorophosphate)	10–100 ppm	0.7 M H ₂ SO ₄	27.0–44.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-octylimidazolium hexafluorophosphate)	10–100 ppm	0.7 M H ₂ SO ₄	24.0–39.0	R _p at 25 °C	¹⁵¹

	hexafluorophosphate)					
AA6061	Poly(1-vinyl-3-butylimidazolium hexafluorophosphate)	10–100 ppm	0.7 M H ₂ SO ₄	24.0–38.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-dodecylimidazolium hexafluorophosphate)	10–100 ppm	1.0 M H ₂ SO ₄	5.0–25.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-octylimidazolium hexafluorophosphate)	10–100 ppm	1.0 M H ₂ SO ₄	1.0–21.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-butylimidazolium hexafluorophosphate)	10–100 ppm	1.0 M H ₂ SO ₄	1.0–19.0	R _p at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-dodecylimidazolium hexafluorophosphate)	10 ppm	1.0 M H ₂ SO ₄	18.0–24.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-octylimidazolium hexafluorophosphate)	10 ppm	1.0 M H ₂ SO ₄	15.0–20.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-butylimidazolium hexafluorophosphate)	10 ppm	1.0 M H ₂ SO ₄	12.0–15.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-dodecylimidazolium hexafluorophosphate)	30 ppm	1.0 M H ₂ SO ₄	23.0–30.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-octylimidazolium hexafluorophosphate)	30 ppm	1.0 M H ₂ SO ₄	20.0–26.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-butylimidazolium hexafluorophosphate)	30 ppm	1.0 M H ₂ SO ₄	15.0–20.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-dodecylimidazolium hexafluorophosphate)	75 ppm	1.0 M H ₂ SO ₄	36.0–40.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-octylimidazolium hexafluorophosphate)	75 ppm	1.0 M H ₂ SO ₄	29.0–38.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-butylimidazolium hexafluorophosphate)	75 ppm	1.0 M H ₂ SO ₄	25.0–30.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-dodecylimidazolium hexafluorophosphate)	10–100 ppm	1.0 M H ₂ SO ₄	55.0–66.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-octylimidazolium hexafluorophosphate)	10–100 ppm	1.0 M H ₂ SO ₄	47.0–61.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹
AA6061	Poly(1-vinyl-3-butylimidazolium hexafluorophosphate)	10–100 ppm	1.0 M H ₂ SO ₄	39.0–44.0	R _p after 1–9 h of immersion at 25 °C	¹⁵¹

E-195 (78.53% Al)	1-buten-3-ol	0.2–20 mM	1 N H ₂ SO ₄	94–98	PDP	¹²⁶
E-195 (78.53% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N H ₂ SO ₄	82–96	PDP	¹²⁶
E-195 (78.53% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	89–97	PDP	¹²⁶
E-195 (78.53% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	93–97	PDP	¹²⁶
E-195 (78.53% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N H ₂ SO ₄	89–98	PDP	¹²⁶
E-195 (78.53% Al)	5-hexen-1-ol	0.2–20 mM	1 N H ₂ SO ₄	82–96	PDP	¹²⁶
E-150 (83.25% Al)	1-buten-3-ol	0.2–20 mM	1 N H ₂ SO ₄	68–99	PDP	¹²⁶
E-150 (83.25% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N H ₂ SO ₄	80–95	PDP	¹²⁶
E-150 (83.25% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	84–97	PDP	¹²⁶
E-150 (83.25% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	62–80	PDP	¹²⁶
E-150 (83.25% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N H ₂ SO ₄	60–92	PDP	¹²⁶
E-150 (83.25% Al)	5-hexen-1-ol	0.2–20 mM	1 N H ₂ SO ₄	75–98	PDP	¹²⁶
E-140 (85.25% Al)	1-buten-3-ol	0.2–20 mM	1 N H ₂ SO ₄	60–90	PDP	¹²⁶
E-140 (85.25% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N H ₂ SO ₄	75–96	PDP	¹²⁶
E-140 (85.25% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	20–75	PDP	¹²⁶
E-140 (85.25% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	60–92	PDP	¹²⁶

E-140 (85.25% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N H ₂ SO ₄	75–94	PDP	¹²⁶
E-140 (85.25% Al)	5-hexen-1-ol	0.2–20 mM	1 N H ₂ SO ₄	60–92	PDP	¹²⁶
E-160 (85.70% Al)	1-buten-3-ol	0.2–20 mM	1 N H ₂ SO ₄	75–96	PDP	¹²⁶
E-160 (85.70% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N H ₂ SO ₄	20–60	PDP	¹²⁶
E-160 (85.70% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	75–95	PDP	¹²⁶
E-160 (85.70% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	37–80	PDP	¹²⁶
E-160 (85.70% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N H ₂ SO ₄	37–96	PDP	¹²⁶
E-160 (85.70% Al)	5-hexen-1-ol	0.2–20 mM	1 N H ₂ SO ₄	75–94	PDP	¹²⁶
E-171 (88.05% Al)	1-buten-3-ol	0.2–20 mM	1 N H ₂ SO ₄	84–95	PDP	¹²⁶
E-171 (88.05% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N H ₂ SO ₄	69–98	PDP	¹²⁶
E-171 (88.05% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	61–95	PDP	¹²⁶
E-171 (88.05% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	69–95	PDP	¹²⁶
E-171 (88.05% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N H ₂ SO ₄	69–94	PDP	¹²⁶
E-171 (88.05% Al)	5-hexen-1-ol	0.2–20 mM	1 N H ₂ SO ₄	80–95	PDP	¹²⁶
E-110 (90.21% Al)	1-buten-3-ol	0.2–20 mM	1 N H ₂ SO ₄	90–95	PDP	¹²⁶
E-110 (90.21% Al)	2-methyl-3-butyn-2-ol	0.2–20 mM	1 N H ₂ SO ₄	40–87	PDP	¹²⁶

E-110 (90.21% Al)	3-methyl-2-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	68–97	PDP	¹²⁶
E-110 (90.21% Al)	3-methyl-3-buten-1-ol	0.2–20 mM	1 N H ₂ SO ₄	20–94	PDP	¹²⁶
E-110 (90.21% Al)	3-methyl-1-pentyn-3-ol	0.2–20 mM	1 N H ₂ SO ₄	40–90	PDP	¹²⁶
E-110 (90.21% Al)	5-hexen-1-ol	0.2–20 mM	1 N H ₂ SO ₄	80–98	PDP	¹²⁶
Pure	1-buten-3-ol	20 mM	1 N H ₂ SO ₄	93	PDP	¹²⁶
Pure	2-methyl-3-butyn-2-ol	20 mM	1 N H ₂ SO ₄	87	PDP	¹²⁶
Pure	3-methyl-2-buten-1-ol	20 mM	1 N H ₂ SO ₄	68	PDP	¹²⁶
Pure	3-methyl-3-buten-1-ol	20 mM	1 N H ₂ SO ₄	50	PDP	¹²⁶
Pure	3-methyl-1-pentyn-3-ol	20 mM	1 N H ₂ SO ₄	75	PDP	¹²⁶
Pure	5-hexen-1-ol	20 mM	1 N H ₂ SO ₄	49	PDP	¹²⁶
99.98%	Sodium dodecyl benzene sulfonate	$1 \cdot 10^{-7}$ – $1 \cdot 10^{-2}$ M	1 M H ₂ SO ₄	12.45– 86.96	PDP and EIS at 30 °C	¹⁵²
99.98%	Sodium dodecyl benzene sulfonate	$1 \cdot 10^{-4}$ M	1 M H ₂ SO ₄	55.36– 69.14	PDP at 10–60 °C	¹⁵²
Al + 2.5% Cu	Sodium dodecyl benzene sulfonate	$1 \cdot 10^{-7}$ – $1 \cdot 10^{-2}$ M	1 M H ₂ SO ₄	15.55– 89.46	PDP and EIS at 30 °C	¹⁵²
Al + 2.5% Cu	Sodium dodecyl benzene sulfonate	$1 \cdot 10^{-4}$ M	1 M H ₂ SO ₄	58.96– 70.54	PDP at 10–60 °C	¹⁵²
Al + 7.0% Cu	Sodium dodecyl benzene sulfonate	$1 \cdot 10^{-7}$ – $1 \cdot 10^{-2}$ M	1 M H ₂ SO ₄	17.21– 91.38	PDP and EIS at 30 °C	¹⁵²
Al + 7.0% Cu	Sodium dodecyl benzene sulfonate	$1 \cdot 10^{-4}$ M	1 M H ₂ SO ₄	61.74– 72.45	PDP at 10–60 °C	¹⁵²
AA6061	Sodium benzoate	1 part in 10 parts test solution	0.1 M H ₂ SO ₄	29.2– 80.3	WL, PDP, R_p and EIS at 5– 30 days of immersion	¹⁵³
AA6063	Sodium benzoate	1 part in 10 parts test solution	0.1 M H ₂ SO ₄	31.9– 63.7	WL, PDP, R_p and EIS at 5– 30 days of immersion	¹⁵³
NG	Polyethylene glycol	10^{-5} – 10^{-4} M	0.1 M H ₂ SO ₄	14.93– 54.69	Thermometric and WL, HE at 30 °C	¹⁵⁴
NG	Polyvinyl alcohol	10^{-5} – 10^{-4} M	0.1 M H ₂ SO ₄	17.59– 51.01	Thermometric and WL, HE at 30 °C	¹⁵⁴

Cold rolled aluminium	2-nonyl-1,3-imidazoline	500 ppm	0.5 M H ₂ SO ₄	88.47	PDP at 30 °C	¹³⁶
Cold rolled aluminium	2-undecyl-1,3-imidazoline	500 ppm	0.5 M H ₂ SO ₄	92.30	PDP at 30 °C	¹³⁶
Cold rolled aluminium	2-pentadecyl-1,3-imidazoline	500 ppm	0.5 M H ₂ SO ₄	83.63	PDP at 30 °C	¹³⁶
Cold rolled aluminium	2-heptadecyl-1,3-imidazoline	500 ppm	0.5 M H ₂ SO ₄	80.15	PDP at 30 °C	¹³⁶
AA2024	4-4-dimethyloxazolidine-2-thione	0.1–2.0 mM	0.5 M HNO ₃	63.93–93.4	PDP and EIS at 30 °C	¹⁵⁵
100%	4-amino-6-methyl-3-thioxo-3,4-dihydro-1,2,4-triazin-5(2H)-one	10–100 ppm	1 N HNO ₃	81.46–97.67	EIS at 25 °C	¹⁵⁶
100%	4-amino-6-benzyl-3-thioxo-3,4-dihydro-1,2,4-triazin-5(2H)-one	10–100 ppm	1 N HNO ₃	71.70–93.25	EIS at 25 °C	¹⁵⁶
100%	4-amino-4H-1,2,4-triazole-3,5-dimethanol	10–200 ppm	1 N HNO ₃	16.21–61.94	Tafel extrapolation at 25 °C	¹⁵⁷
100%	(4-(benzylideneamino)-4H-1,2,4-triazole-3,5-diyl)dimethanol	10–200 ppm	1 N HNO ₃	21.26–81.05	Tafel extrapolation at 25 °C	¹⁵⁷
100%	(4-(4-(dimethylamino)benzylideneamino))-4H-1,2,4-triazole-3,5-diyl)dimethanol	10–200 ppm	1 N HNO ₃	21.21–83.17	Tafel extrapolation at 25 °C	¹⁵⁷
99.999%	3-pyridinecarboxaldehyde thiosemicarbazone	10 ⁻⁴ –10 ⁻² M	1 M HNO ₃	20.5–71.2	WL and EIS at 25 °C	¹⁵⁸
99.999%	Isonicotinaldehyde thiosemicarbazone	10 ⁻⁴ –10 ⁻² M	1 M HNO ₃	31.3–83.2	WL and EIS at 25 °C	¹⁵⁸
99.999%	2-pyridinecarboxaldehyde thiosemicarbazone	10 ⁻⁴ –10 ⁻² M	1 M HNO ₃	42.4–91.2	WL and EIS at 25 °C	¹⁵⁸
High-purity	Purine	10 ⁻⁴ –10 ⁻² M	1 M H ₃ PO ₄	3.92–53.36	PDP and EIS, deaerated stirred at 25 °C	¹⁵⁹
High-purity	Purine + 10 ⁻⁴ M KI	10 ⁻⁴ –10 ⁻² M	1 M H ₃ PO ₄	6.76–94.07	PDP and EIS, deaerated stirred at 25 °C	¹⁵⁹
99.52%	Benzalacetophenone	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	20.78–45.60	WL and GSP at 30 °C	¹⁶⁰
99.52%	Dibenzalacetone	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	38.07–57.70	WL and GSP at 30 °C	¹⁶⁰
99.52%	Dibenzal-1, 4-diacetylbenzene	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	42.80–64.80	WL and GSP at 30 °C	¹⁶⁰
99.52%	Benzalacetophenone + 10 ⁻² M KI	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	34.90–52.97	WL at 30 °C	¹⁶⁰

99.52%	Dibenzalacetone + 10 ⁻² M KI	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	47.58–65.65	WL at 30 °C	¹⁶⁰
99.52%	Dibenzal-1, 4-diacetylbenzene + 10 ⁻² M KI	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	60.25–80.20	WL at 30 °C	¹⁶⁰
99.52%	Benzalacetophenone + 10 ⁻² M KBr	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	30.76–49.19	WL at 30 °C	¹⁶⁰
99.52%	Dibenzalacetone + 10 ⁻² M KBr	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	41.94–63.77	WL at 30 °C	¹⁶⁰
99.52%	Dibenzal-1, 4-diacetylbenzene + 10 ⁻² M KBr	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	52.74–75.51	WL at 30 °C	¹⁶⁰
99.52%	Benzalacetophenone + 10 ⁻² M KCl	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	25.51–52.04	WL at 30 °C	¹⁶⁰
99.52%	Dibenzalacetone + 10 ⁻² M KCl	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	40.06–65.18	WL at 30 °C	¹⁶⁰
99.52%	Dibenzal-1, 4-diacetylbenzene + 10 ⁻² M KCl	1–11 · 10 ⁻⁶ M	1 M H ₃ PO ₄	48.54–70.35	WL at 30 °C	¹⁶⁰
99.47%	5(-4-nitrophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	14.2–41.0	WL after 210 min immersion at 30 °C	¹⁶¹
99.47%	5(-4-chlorophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	17.4–43.6	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-hydrophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	23.4–50.7	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-methylphenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	29.2–53.3	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-methoxyphenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	33.3–55.4	WL after 210 min immersion and GSP at 30 °C	¹⁶¹
99.47%	5(-4-nitrophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KI	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	58.2–69.4	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-chlorophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KI	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	61.7–71.6	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-hydrophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KI	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	65.2–74.7	WL after 210 min immersion at	¹⁶¹

					30 °	
99.47%	5(-4-methylphenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KI	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	70.1–77.4	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-methoxyphenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KI	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	75.9–81.1	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-nitrophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KSCN	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	48.3–59.0	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-chlorophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KSCN	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	50.7–64.2	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-hydrophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KSCN	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	54.7–66.3	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-methylphenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KSCN	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	59.0–69.4	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-methoxyphenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KSCN	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	63.2–73.4	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-nitrophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KBr	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	42.2–54.9	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-chlorophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KBr	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	44.8–57.1	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-hydrophenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KBr	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	46.9–58.9	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-methylphenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KBr	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	51.0–63.5	WL after 210 min immersion at 30 °	¹⁶¹
99.47%	5(-4-methoxyphenylazo)-3-phenylamino-2-thioxo-4-thiazolidinone + 10 ⁻² M KBr	5–15 · 10 ⁻⁷ M	3 M H ₃ PO ₄	54.4–69.0	WL after 210 min immersion at 30 °	¹⁶¹
99.99%	Sodium oleate	1–200 · 10 ⁻⁵	1 M H ₃ PO ₄	6.00–	Polarization in deaerated	¹⁶³

		M		88.80	stirred solutions at 25 °C	
Al-4.5% Cu	Sodium oleate	$1-200 \cdot 10^{-5}$ M	1 M H ₃ PO ₄	6.67–95.60	Polarization in deaerated stirred solutions at 25 °C	¹⁶³
Al-7.5% Cu	Sodium oleate	$1-200 \cdot 10^{-5}$ M	1 M H ₃ PO ₄	6.74–99.28	Polarization in deaerated stirred solutions at 25 °C	¹⁶³
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-4-methoxyaniline	0.2–0.8 wt.%	0.1 N trichloroacetic acid	45.5–62.6	WL after 24 h immersion and at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-2-methylaniline	0.2–0.8 wt.%	0.1 N trichloroacetic acid	41.7–56.3	WL after 24 h immersion and at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-3-methylaniline	0.2–0.8 wt.%	0.1 N trichloroacetic acid	36.7–53.1	WL after 24 h immersion and at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-4-methoxyaniline	0.2–0.8 wt.%	0.5 N trichloroacetic acid	51.7–65.3	WL and thermometric after 70 min immersion at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-2-methylaniline	0.2–0.8 wt.%	0.5 N trichloroacetic acid	45.2–58.9	WL and thermometric after 70 min immersion at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-3-methylaniline	0.2–0.8 wt.%	0.5 N trichloroacetic acid	41.6–55.9	WL and thermometric after 70 min immersion at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-4-methoxyaniline	0.2–0.8 wt.%	1.0 N trichloroacetic acid	57.4–77.4	WL and thermometric after 23 min immersion at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-2-methylaniline	0.2–0.8 wt.%	1.0 N trichloroacetic acid	52.3–66.8	WL and thermometric after 23 min immersion at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-3-methylaniline	0.2–0.8 wt.%	1.0 N trichloroacetic acid	48.1–65.8	WL and thermometric after 23 min immersion at	¹⁶⁴

					25 °C	
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-4-methoxyaniline	0.2–0.8 wt.%	2.0 N trichloroacetic acid	94.1–98.5	WL and thermometric after 14 min immersion at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-2-methylaniline	0.2–0.8 wt.%	2.0 N trichloroacetic acid	89.2–94.6	WL and thermometric after 14 min immersion at 25 °C	¹⁶⁴
98.5%	<i>N</i> -(4- <i>N,N</i> -dimethylamino) benzylidene-3-methylaniline	0.2–0.8 wt.%	2.0 N trichloroacetic acid	88.3–93.5	WL and thermometric after 14 min immersion at 25 °C	¹⁶⁴
98.02%	Sulphathiazole	5 mM	0.01 M trichloroacetic acid	74.39	WL	¹⁶⁶
98.02%	Sulphathiazole	20 mM	0.01–0.10 M trichloroacetic acid	75.80–88.79	WL after 2 h immersion at 40–60 °C	¹⁶⁶
98.02%	Sulphathiazole	20 mM	0.05 M trichloroacetic acid	78.72–59.22	WL after 1 day immersion and GSP	¹⁶⁶
95%	Diethylene triamine pentamethylene phosphonic acid	50–250 ppm	Aqueous solution at pH = 3	59.0–69.0	WL after 1 day immersion	¹⁶⁹
95%	Diethylene triamine pentamethylene phosphonic acid + 5 ppm Zn ²⁺	50–250 ppm	Aqueous solution at pH = 3	82.0–96.0	WL after 1 day immersion	¹⁶⁹
95%	Diethylene triamine pentamethylene phosphonic acid + 10 ppm Zn ²⁺	50–250 ppm	Aqueous solution at pH = 3	83.0–98.0	WL after 1 day immersion	¹⁶⁹
95%	Diethylene triamine pentamethylene phosphonic acid + 25 ppm Zn ²⁺	50–250 ppm	Aqueous solution at pH = 3	91.0–98.0	WL after 1 day immersion	¹⁶⁹
95%	Diethylene triamine pentamethylene phosphonic acid + 50 ppm Zn ²⁺	50–250 ppm	Aqueous solution at pH = 3	95.0–98.0	WL after 1 day immersion	¹⁶⁹
99.99%	Alanine	10 ⁻⁴ –10 ⁻¹ M	1 M HCl + 1 M H ₂ SO ₄	4.8–64.2	WL and R _p at 25 °C	¹⁷⁰
99.99%	Leucine	10 ⁻⁴ –10 ⁻¹ M	1 M HCl + 1 M H ₂ SO ₄	6.9–68.3	WL and R _p at 25 °C	¹⁷⁰
99.99%	Methionine	10 ⁻⁴ –10 ⁻¹ M	1 M HCl + 1 M H ₂ SO ₄	51.3–91.2	WL and R _p at 25 °C	¹⁷⁰
99.99%	Valine	10 ⁻⁴ –10 ⁻¹ M	1 M HCl + 1 M	5.3–	WL and R _p at	¹⁷⁰

			H ₂ SO ₄	67.5	25 °C	
99.99%	Proline	10 ⁻⁴ –10 ⁻¹ M	1 M HCl + 1 M H ₂ SO ₄	4.8–87.7	WL and R _p at 25 °C	¹⁷⁰
99.99%	Tryptophan	10 ⁻⁴ –10 ⁻¹ M	1 M HCl + 1 M H ₂ SO ₄	29.6–93.0	WL and R _p at 25 °C	¹⁷⁰
AA6061	Sodium benzoate	1 part in 10 parts test solution	0.5 M CH ₃ COOH	20.8–89.6	WL, PDP, R _p and EIS at 5–30 days of immersion	¹⁵³
AA6063	Sodium benzoate	1 part in 10 parts test solution	0.5 M CH ₃ COOH	64.5–89.5	WL, PDP, R _p and EIS at 5–30 days of immersion	¹⁵³

* η was calculated based on the values of the corrosion rate, corrosion current, or corrosion current density or the resistance of the blank solution and inhibited samples.

** η was calculated based on the sum ($R_{\text{oxide}} + R_p + R_{\text{inhibitor}}$) of the blank solution and of the inhibited samples.

NG – not given