



Corrosion Resistance Tables

The tables that follow show the maximum recommended temperature for resins when exposed to the listed chemicals and concentrations. However, selecting a resin often involves more than simply checking its corrosion resistance. Mechanical properties can be equally important. If you are uncertain, please discuss your application with an experienced materials engineer or contact Reichhold.

The corrosion performance of and DION[®] resins has been demonstrated over 40 years in over 300 chemical environments. Additional engineering detail has been developed through systematic laboratory evaluation of FRP composites exposed to many environmental conditions. This information is presented as a guide to engineers and fabricators involved in the manufacture of FRP products intended for corrosive service.

Service temperatures presented in this guide assume that laminates and corrosion barriers are fully cured and fabricated to industry quality standards. Suggested temperature limits provide service guidelines based on ASTM C-581 coupon testing and real world experience, which does not necessarily represent the highest temperature at which these resins may be employed in a given environment. Laminate construction techniques and the required life span of the equipment to be fabricated are significant factors which must be taken into consideration.

IMPORTANT NOTE: The information herein is to help customers determine whether these products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before using them to satisfy themselves as to contents and suitability. We warrant that our products will meet our written specifications. Nothing herein shall constitute any other warranty express or implied, including any warranty of merchantability or fitness for a particular purpose, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials, and in no event shall we be liable for special, incidental, or consequential damages.

Note: The ATLAC brand has been changed to DION so that ATLAC 382 becomes DION 382, ATLAC 490 becomes DION 490, etc., with one exception: ATLAC 580 became DION 9800. The resins themselves have not changed.

Chemical	Conc.	DION 9100 9102 9300	DION 9800 <small>(Formerly ATLAC 580)</small>	DION 9480	DION 9420	DION 6694	DION 382 <small>(Formerly ATLAC 382)</small>	DION 4010 <small>(Formerly ATLAC 4010)</small>	DION 490 <small>(Formerly ATLAC 490)</small>	DION 6631 DION 400 <small>(Formerly ATLAC 400)</small>
Acetaldehyde	100	NR	NR	NR	NR	NR	NR	NR	NR	NR
Acetic Acid	0-25	210	210	210	210	210	210	200	170	170
Acetic Acid	25-50	180	180	180	180	180	180	180	150	150
Acetic Acid	50-75	140	140	140	140	140	140	140		
Acetic Acid, Glacial	100	NR	NR	NR	NR	NR	NR	NR	NR	NR
Acetic Anhydride	100	NR	NR			110	110	NR	NR	NR
Acetone	10	180	180	180	180	180	180	180	NR	NR
Acetone	100	NR	NR	NR		NR	NR	NR	NR	NR
Acetonitrile	100	NR	NR	NR		NR	NR	NR	NR	NR
Acetophenone	100	NR	NR	NR		NR	NR	NR		NR
Acetyl Chloride	ALL	NR	NR	NR		NR	NR	NR		NR
Acrylic Acid	0-25	100	100	100	110	110	100	100		NR
Acrylic Latex	ALL	120	150			150	150	150	130	
Acrylonitrile	100	NR	NR	NR	NR	NR	NR	NR	NR	NR
Acrylonitrile Latex	ALL		150			150	150	150		
Alkyl Benzene Sulfonic Acid	92	120	120	120		150	150	120		
Alkyl Benzene C10-C12	100		150			150	150			
Allyl Alcohol	100	NR	NR	NR		NR	NR	NR		NR

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Allyl Chloride	ALL	NR	NR			NR	NR	NR	NR	NR
Alpha Methyl Styrene	100	NR	NR	NR		NR	NR	NR	NR	NR
Alpha Olefin Sulfates	100	120	120	120		120	120	120		
Alum	ALL	210	210	220	220	220	220	200	170	170
Aluminum Chloride	All	210	210	220	220	220	220	200	170	170
Aluminum Chlorohydrate	ALL	210	210	210	220	220	210	200	150	150
Aluminum Citrate	All	210	210	220	220	220	210	200	170	170
Aluminum Fluoride	ALL	80	110	80	80	120	110	110	NR	NR
Aluminum Hydroxide	ALL	180		200	200	210				
Aluminum Nitrate	ALL	180	180	180	180	180	180	160		140
Aluminum Potassium Sulfate	ALL	210	200	220	220	220	210	200	170	170
Aluminum Sulfate	ALL	210	200	220	220	220	210	200	175	170
Amino Acids	ALL	100	100	100		100	100	100		
Ammonia Liquified	ALL	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ammonia, Aqueous (See Ammonium Hydroxide)										
Ammonia (Dry Gas)	ALL	100	200	100	180	200	200	200		
Ammonium Acetate	65	100	110	110	100	110	110	100	80	NR
Ammonium Benzoate	ALL	180	180	180		180	180	180	140	

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Ammonium Bicarbonate	ALL	160	160	160		170	160	150		120
Ammonium Bisulfite (Black Liquor)		180	180	180		210	180	180		NR
Ammonium Bromate	40	160	160			160	160	160		
Ammonium Bromide	40	160	160	160		160	160	160		
Ammonium Carbonate	ALL	150	150	150	150	150	150	150	140	80
Ammonium Chloride	ALL	210	210	210	210	210	210	200	170	170
Ammonium Citrate	ALL	160	160	160	160	170	160	160		120
Ammonium Fluoride	ALL	150	150		150	150	140		NR	
Ammonium Hydroxide (Aqueous Ammonia)	1	200	200	200	210	200	200		NR	NR
Ammonium Hydroxide (Aqueous Ammonia)	5	180	180	180	180	180	180	180	NR	NR
Ammonium Hydroxide (Aqueous Ammonia)	10	150	150	150	170	170	150	140	NR	NR
Ammonium Hydroxide (Aqueous Ammonia)	20	150	150	150	150	150	140	140	NR	NR
Ammonium Hydroxide (Aqueous Ammonia)	29	100	100	100	100	100	100	100	NR	NR
Ammonium Lauryl Sulfate	30	120	120	120		120	120	120		
Ammonium Ligno Sulfonate	50		160			180	180	160		
Ammonium Nitrate	ALL	200	200	220		220	210	200	140	140
Ammonium Persulfate	ALL	180	180	180	180	210	180	180	140	NR
Ammonium Phosphate (Mono or Di Basic)	ALL	210	210	210	210	210	180	180	140	140

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Ammonium Sulfate	ALL	210	200	210	210	220	210	200	170	170
Ammonium Sulfide (Bisulfide)	ALL	120	110	120	120	110	110	110		NR
Ammonium Sulfite	ALL	150	150		150	150	150	150	80	NR
Ammonium Thiocyanate	20	210	210	210		220	210	200	140	140
Ammonium Thiocyanate	50	110	110	110		150	110	110	80	80
Ammonium Thiosulfate	60	100	100	100	100	150	110	110		NR
Amyl Acetate	ALL	NR	NR	100	NR		NR	NR	80	NR
Amyl Alcohol (vapor)		150	150	150	210	210	210	150		100
Amyl Alcohol	All	120	150	200	180	210	210	150	170	80
Amyl Chloride	ALL	120		120	120			NR	NR	NR
Aniline	ALL	NR	NR	NR	NR	NR	NR	NR	NR	NR
Aniline Hydrochloride	ALL	180	180	180		180	180	180	140	
Aniline Sulfate	Sat'd	210	210	210	210	220	210	200	140	140
Aqua Regia (3:1 HCl-HNO3)	ALL	NR	NR	NR		NR	NR	NR	NR	NR
Arsenic Acid	80	110	110	100		110	110	110	80	
Arsenious Acid	20	180	180	180	180	180	180	180	80	80
Barium Acetate	ALL	180	180	180	180	180	180	180	140	NR
Barium Bromide	ALL	210	210	210		210	180	180		

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Barium Carbonate	ALL	210	210	220		220	210	200	80	80
Barium Chloride	ALL	210	210	210	210	220	210	200	175	170
Barium Cyanide	ALL	150	150	150		150	150	150		
Barium Hydroxide	ALL	150	160	150		170	160	160	NR	NR
Barium Sulfate	ALL	210	210	220	210	220	210	200	175	170
Barium Sulfide	ALL	180	180	180	180	180	180	140	NR	NR
Beer							110	110		80
Beet Sugar Liquor	ALL	180	180	180		180	180	180	175	110
Benzaldehyde	100	NR	NR	NR		NR	NR	NR	NR	NR
Benzene	100	NR	NR	100	NR	NR	NR	NR	NR	NR
Benzene, HCl (wet)	ALL	NR	NR	NR		NR	NR	NR	NR	NR
Benzene Sulfonic Acid	30	210	210	210	210	210	210	200	140	NR
Benzene (Vapor)	ALL	NR	NR	NR		NR	NR	NR	NR	NR
Benzoic Acid	ALL	210	210	210	210	220	210	200	170	170
Benzoquinones	ALL	150	180	180	180	180	180	180		
Benzyl Alcohol	ALL	NR		90	NR	100	100		80	NR
Benzyl Chloride	ALL	NR	NR	80		NR	NR	NR	NR	NR
Black Liquor (pulp mill)	ALL	180	200	180		210	200	200	140	NR

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Bleach Solutions - Calcium Hypochlorite	ALL	180	200	180		210	200		NR	NR
- Chlorine Dioxide		160	160	160		160	160		NR	NR
- Chlorine Water	ALL	180	200	180	210	210	200	200	NR	NR
- Chlorite	50	100	110	100		110	110		NR	NR
- Hydrosulfite		180	190	180		190	190		NR	NR
- Sodium Hypochlorite	0-15	125	125	125	125	125	125	125	NR	NR
Borax	ALL	210	210	210	210	210	210	200	175	170
Boric Acid	ALL	210	210	210	210	220	210	200	170	170
Blake Fluid		110	110	110		110	110	110		
Brine, Salt	ALL	210	210	210	210	240	210	200	175	170
Bromine	Liquid	NR	NR	NR	NR	NR	NR	NR	NR	NR
Bromine Water	5	180	180	180		180	180	180	80	
Brown Stock (pulp mill)		180	180	180		180	180	180		NR
Bunker C Fuel Oil	100	210	210	220	210	220	210	200	175	140
Butanol	ALL	120	120	120		150	110	110	100	NR
Butanol, Tertiary	ALL		NR			110	110	NR		
Butyl Acetate	100	NR	NR	80	NR	NR	NR	NR	80	NR
Butyl Acrylate	100	NR	NR	80		NR	NR	NR	NR	NR

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Butyl Amine	ALL	NR	NR	NR		NR	NR	NR	NR	NR
Butyl Benzoate	100			100					NR	NR
Butyl Benzyl Phthalate	100	180	180	180	150	210	210	190	175	
Butyl Carbitol	100	100		100	100	100	100		NR	NR
Butyl Cellosolve	100	100	100	100	100	120	120	100		NR
Butylene Glycol	100	160	180	180	180	200	180	180	175	150
Butylene Oxide	100	NR	NR	NR		NR	NR	NRN	NR	NR
Butyraldehyde	100	NR	NR	NR		NR	NR	NR	NR	NR
Butyric Acid	50	210	210	210		210	210		100	80
Butyric Acid	85	80	110	110		110	110	110	NR	NR
Cadmium Chloride	ALL	180	190	180	180	190	190	190	150	150
Calcium Bisulfite	ALL	180	180	180	180	200	180	180	140	140
Calcium Bromide	ALL	200	200	200		220	210	190		
Calcium Carbonate	ALL	180	200	180	200	220	210	200		160
Calcium Chlorate	All	210	200	220	210	220	210	200	150	150
Calcium Chloride	Sat'd	210	210	220	210	240	210	200	175	170
Calcium Hydroxide	ALL	180	180	180	210	210	180	160		160
Calcium Hypochlorite	ALL	180	200	180		210	200		NR	NR

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Chlorine Dioxide		160	160	160		160	160		NR	NR
Chlorine Gas (wet or dry)		210	210	210	210	210	210	200		
Chlorine Water	ALL	180	200	180	210	210	200	200	NR	NR
Chloroacetic Acid	25		200			210	210	200	80	
Chloroacetic Acid	50		140			150	140	140	80	NR
Chloroacetic Acid	80		110			110	110	110		
Chloroacetic Acid	100	NR	NR	NR	NR	NR	NR	NR	NR	NR
Chlorobenzene	100	NR	NR	80		NR	NR	NR	NR	NR
Chloroform	100	NR	NR	NR		NR	NR	NR	NR	NR
Chloropyridine	100	NR	NR	NR		NR	NR	NR		NR
Chlorosulfonic Acid	ALL	NR	NR	NR		NR	NR	NR	NR	NR
Chlorotoluene	100	NR	NR	NR		NR	NR	NR		NR
Chrome Plating Solution		120				130		NR	80	NR
Chromic Acid	5	110	110	110	110	120	110	110	80	
Chromic Acid	20	NR	NR	NR		100	NR	NR		NR
Chromium Sulfate	ALL	150	150	150	180	180	150	140	140	
Chromous Sulfate	ALL	180		150	180	180	160	140	140	140
Citric Acid	ALL	210	210	220	210	220	210	200	175	160

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Cobalt Chloride	ALL	180	180	180		180	180	180		
Cobalt Citrate	ALL	180	180	180			180	180		
Cobalt Naphthenate	ALL	150	150	150		150	150	150		
Cobalt Nitrate	15	120	180			180	180	180		
Cobalt Octoate	ALL	150	150	150		150	150	150		
Coconut Oil	ALL	180	200	190	210	220	200	200	175	150
Copper Acetate	ALL	210	210		210	220	180	180	170	170
Copper Chloride	ALL	210	210	220	210	220	210	200	170	170
Copper Cyanide	ALL	210	210	210	210	220	210	200	140	130
Copper Fluoride	ALL	210			210	210				NR
Copper Nitrate	ALL	210	210	210	210	220	210	200	170	170
Copper Sulfate	ALL	210	210	220	210	240	220	200	175	170
Corn Oil	ALL	200	200	200		200	200	200	175	
Corn Starch	ALL	210	210	210		210	210	200	175	
Corn Sugar	ALL	210	210	210		210	210	200	175	
Cottonseed Oil	ALL	210	210	210		200	200	200	175	
Cresylic Acids	ALL	NR	NR	NR	NR	NR	NR	NR	NR	NR
Crude Oil, Sour or Sweet	100	210	210	210	210	210	210	200	170	170

Chemical	Conc.	DION 9100 9102 9300	DION 9800 <small>(Formerly ATLAC 580)</small>	DION 9480	DION 9420	DION 6694	DION 382 <small>(Formerly ATLAC 382)</small>	DION 4010 <small>(Formerly ATLAC 4010)</small>	DION 490 <small>(Formerly ATLAC 490)</small>	DION 6631 DION 400 <small>(Formerly ATLAC 400)</small>
Dichloromethane (Methylene Chloride)	100	NR	NR	NR		NR	NR	NR		NR
Dichloropropane	100	NR	NR	NR		NR	NR	NR		NR
Dichloropropene	100	NR	NR	NR		NR	NR	NR		NR
Dichloropropionic Acid	100	NR	NR	NR		NR	NR	NR		NR
Diesel Fuel	ALL	180	180	200	200	210	180	180	175	140
Diethanolamine	100	80	110	110	120	110	110	110		NR
Diethyl Amine	100	NR	NR	NR		NR	NR	NR	NR	NR
Diethyl Ether (Ethyl Ether)	100	NR	NR	NR		NR	NR	NR	NR	NR
Diethyl Formamide	100	NR	NR	NR		NR	NR	NR	NR	NR
Diethyl Ketone	100	NR	NR	NR		NR	NR	NR	NR	NR
Diethyl Maleate	100	NR	NR	NR		NR	NR	NR	NR	NR
Di 2-Ethyl Hexyl Phosphate	100		200			210	210	200		
Diethylenetriamine (DETA)	100	NR	NR	NR		NR	NR	NR		NR
Diethylene Glycol	100	200	200	200	200	220	210	200	175	170
Diisobutyl Ketone	100	NR	NR	110		NR	NR	NR		NR
Diisobutyl Phthalate	100	120	150	150		180	180	180		
Diisobutylene	100	NR	NR	100		NR	NR	NR		NR
Diisopropanolamine	100	110	110	120		100	100	100		

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Dimethyl Formamide	100	NR	NR	NR		NR	NR	NR		NR
Dimethyl Phthalate	100	150	150	150	180	170	150	150	140	NR
Diocetyl Phthalate	100	180	180	180	180	210	180	160	175	150
Dioxane	100	NR	NR	NR		NR	NR	NR	NR	NR
Diphenyl Ether	100	80	120	120	120	140	120	120	120	NR
Dipiperazine Sulfate Solution	ALL		100				100	100	80	
Dipropylene Glycol	ALL	200	200	210		220	210	200	175	170
Distilled Water	100	200	200	210		210	210	200		170
Divinyl Benzene	100	NR	NR	120		NR	NR	NR		NR
Embalming Fluid	ALL	110	110	110		110	110	110		NR
Epichlorohydrin	100	NR	NR	NR	NR	NR	NR	NR		NR
Epoxidized Soybean Oil	ALL	150	200	150		200	200	200		
Esters of Fatty Acids	100	180	180	180	180	210	180	180		150
Ethanolamine	100	NR	NR	80		NR	NR	NR	NR	NR
Ethyl Acetate	100	NR	NR	NR	NR	NR	NR	NR	NR	NR
Ethyl Acrylate	100	NR	NR	NR	NR	NR	NR	NR		NR
Ethyl Alcohol (Ethanol)	10	120	140	150	150	150	140	140	110	
Ethyl Alcohol (Ethanol)	50	100	100	150		120	120	120	100	

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Ethyl Alcohol (Ethanol)	95-100	80	80	100		120	110	110	80	
Ethyl Benzene	100	NR	NR	100			100	NR		NR
Ethyl Benzene/Benzene Blends	100	NR	NR	NR		NR	NR	NR		NR
Ethyl Bromide	100	NR	NR	NR		NR	NR	NR		NR
Ethyl Chloride	100	NR	NR	NR		NR	NR	NR		NR
Ethyl Ether (Diethyl Ether)	100	NR	NR	NR		NR	NR	NR	NR	NR
Ethylene Chloride	100	NR	NR	NR		NR	NR	NR	NR	NR
Ethylene Chloroformate	100	NR	NR	NR		NR	NR	NR	NR	NR
Ethylene Chlorohydrin	100	100	110	100	100	110	110	110	80	NR
Ethylene Diamine	100	NR	NR	NR		NR	NR	NR		NR
Ethylene Dibromide	ALL	NR	NR	NR	NR	NR	NR			NR
Ethylene Dichloride	100	NR	NR	NR		NR	NR	NR	NR	NR
Ethylene Glycol	ALL	200	200	210	210	220	210	200	180	170
Ethylene Glycol Monobutyl Ether	100	100	100	100		100	100	100		NR
Ethylene Diamine Tetra Acetic Acid	100	100	110	100		110	110	110		NR
Ethylene Oxide	100	NR	NR	NR		NR	NR	NR		NR
Eucalyptus Oil	100	140	140	140		140	140	140		
Fatty Acids	ALL	210	210	220	210	220	210	200	175	170

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Ferric Acetate	ALL	180	180	180		180	180	180	140	
Ferric Chloride	ALL	210	200	210	210	220	210	200	170	170
Ferric Nitrate	ALL	210	200	210	210	220	210	200	170	170
Ferric Sulfate	ALL	210	200	210	210	220	210	200	170	170
Ferrous Chloride	ALL	210	200	210	210	220	210	200	170	170
Ferrous Nitrate	ALL	210	200	210	210	220	210	200	170	170
Ferrous Sulfate	ALL	210	200	210	210	220	210	200	170	170
Fertilizer, 8,8,8		120	110	120		120	110	110		120
Fertilizer, URAN		120	110	120		120	110	110		120
Fluoboric Acid	10	210	180	220	210	220	200	180		150
Fluoboric Acid	15		160			160	160	160		
Fluoride Salts & HCl	30:10		120				120	120		
Fluosilicic Acid	10	150	150	150	150	150	150	150	NR	NR
Fluosilicic Acid	35	100	100	100	100	100	100		NR	NR
Fluosilicic Acid	Fumes	180	180	180		180	180	180		NR
Fly Ash Slurry			180				180	180		
Formaldehyde	25-56	150	110	150	150	150	150	110		NR
Formic Acid	10	180	150	180	150	150	150	150	120	100

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Formic Acid	50	100	110	100	100	110	110	110	80	NR
Freon 11	100		110	100			110	110	80	
Fuel Oil	100	210	210	220	210	220	210	200	175	140
Furfural	10	100	110		120	150	110			NR
Furfural	50-100	NR	NR	NR		NR	NR			NR
Gallic Acid	Sat'd	100	100	100		100	100	100		
Gasoline, Regular Leaded	100	110	110	110		110	110	110	110	110
Gasoline, Regular Unleaded	100	80		100				110	110	
Gasoline, Alcohol Containing	100			100					110	
Gluconic Acid	50	180	160	180	180	180	160	160	100	100
Glucose	ALL	210	180	210	210	210	180	180	180	110
Glutaric Acid	50	120	120	120		120	120	120		
Glycerine	100	210	210	210	210	220	210	200	180	170
Glycolic Acid (Hydroxyacetic Acid)	10	180		200	200	200			140	
Glycolic Acid (Hydroxyacetic Acid)	35	140	140	140	150	140	140	140	140	140
Glycolic Acid (Hydroxyacetic Acid)	70	80		100	100	100				
Glyoxal	40	100	110	100		110	110	110	80	
Green Liquor (pulp mill)		180	200	180	200	210	200	200	140	NR

Chemical	Conc.	DION 9100 9102 9300	DION 9800 <small>(Formerly ATLAC 580)</small>	DION 9480	DION 9420	DION 6694	DION 382 <small>(Formerly ATLAC 382)</small>	DION 4010 <small>(Formerly ATLAC 4010)</small>	DION 490 <small>(Formerly ATLAC 490)</small>	DION 6631 DION 400 <small>(Formerly ATLAC 400)</small>
Hydrofluosilicic Acid	35	100	100	100	100	100	100	100	NR	NR
Hydrogen Bromide, gas	ALL	180		180	180	210	210			140
Hydrogen Chloride, dry gas	100	210	180	210	210	220	210	180		150
Hydrogen Fluoride, gas	ALL	150	150	150	180	180	180	150		80
Hydrogen Peroxide (storage)	5	150	150	150	150	150	150	150	80	NR
Hydrogen Peroxide (storage)	30	100	150	100	100	100	100	100	NR	NR
Hydrogen Sulfide, gas	ALL	210	200	210	210	240	210	200	140	140
Hydroiodic Acid	150	150		150	150	150	150			80
Hypophosphorus Acid	50	120		120			120	120		
Iodine, Solid	ALL	150	150	150	150	170	150			
Isoamyl Alcohol	100	120	120	120		120	120	120		
Isobutyl Alcohol	ALL	120	125	120		125	125	125	120	
Isodecanol	ALL	120	150	180		180	180	150	140	
Isononyl Alcohol	100		125	140		125	125	125		
Isooctyl Adipate	100		180				180	180		
Isooctyl Alcohol	100		100	140		150	150	100		
Isopropyl Alcohol	ALL	120	110	120	120	120	110	110	80	80
Isopropyl Amine	ALL	100		120	120	120				

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Isopropyl Myristate	ALL	200	200	200		210	210	200		
Isopropyl Palmitate	ALL	200	200	210	210	210	210	200	180	
Itaconic Acid	ALL	120	125	120		125	125	125	80	
Jet Fuel		180	180	180	180	210	180		140	140
Jojoba Oil	100	180	180	180		180	180	180		
Kerosene	100	180	180	180	180	210	180	140	140	140
Lactic Acid	ALL	210	210	210	210	220	210	200	140	130
Latex	ALL	120	150	150		150	150	150		
Lauric Acid	ALL	210	200	210		210	210	200	180	
Lauryl Alcohol	100	150	160	180		180	180	160		
Lauryl Mercaptan	ALL		150	150		150	150	150		
Lead Acetate	ALL	210	200	210	210	220	210	200	140	110
Lead Chloride	ALL	200	200	220		210	210	200	140	
Lead Nitrate	ALL	210	200	220	210	220	210	200		140
Levulinic Acid	ALL	210	200	220	210	210	210	200	140	
Lime Slurry	ALL	180	180	180	210	210	180	160		160
Linseed Oil	ALL	210	200	220	210	220	200	200	180	170
Lithium Bromide	ALL	210	200	220	210	220	210	200		170

Chemical	Conc.	DION 9100 9102 9300	DION 9800 <small>(Formerly ATLAC 580)</small>	DION 9480	DION 9420	DION 6694	DION 382 <small>(Formerly ATLAC 382)</small>	DION 4010 <small>(Formerly ATLAC 4010)</small>	DION 490 <small>(Formerly ATLAC 490)</small>	DION 6631 DION 400 <small>(Formerly ATLAC 400)</small>
Lithium Carbonate	ALL			150						
Lithium Chloride	ALL	210	200	210	210	220	210	200	180	170
Lithium Sulfate	ALL	210		210	210	210	210			
Magnesium Bicarbonate	ALL	180	170	180	200	210	170	170	130	130
Magnesium Bisulfite	ALL	180	180	180	180	180	180	180	140	
Magnesium Carbonate	15	180	180	180	200	210	180	175	130	130
Magnesium Chloride	ALL	210	200	220	210	220	210	200	140	140
Magnesium Hydroxide	ALL	210	200	210	210	210	210	200		
Magnesium Nitrate	ALL	210		210	210	220	210			170
Magnesium Sulfate	ALL	210	200	210	210	210	210	200	175	150
Maleic Acid	ALL	200	200	210		210	210	200	140	140
Maleic Anhydride	100	200	200	210	210	210	210	200	140	140
Manganese Chloride	ALL	210	200			220	210	200		
Manganese Sulfate	ALL	210	200	220		210	210	200		150
Mercuric Chloride	ALL	210	200	210	210	220	210	200	170	170
Mercurous Chloride	ALL	210	200	210	210	220	210	200	170	170
Mercury		210	200	220	210	220	210	200	175	170
Methyl Alcohol (Methanol)	100	NR	80	100		110	110	80	80	

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Methyl Ethyl Ketone	ALL	NR	NR	NR	NR	NR	NR	NR	NR	NR
Methyl Isobutyl Ketone	100	NR	NR	NR		NR	NR	NR	NR	NR
Methyl Methacrylate	ALL	NR	NR	NR		NR	NR	NR	NR	NR
Methyl Styrene	100	NR	NR	NR		NR	NR	NR		NR
Methylene Chloride	100	NR	NR	NR		NR	NR	NR	NR	NR
Milk and Milk Products	ALL						100	100		100
Mineral Oil	100	210	200	210	210	220	210	200	175	170
Molasses and Invert Molasses	ALL		110	110		110	110	110	80	
Molybdenum Disulfide	ALL	200			200					
Molybdic Acid	25		150	150		150	150	150	140	
Monochloroacetic Acid	80	NR	NR	NR		NR	NR	NR		NR
Monochlorobenzene	100	NR	NR	NR	NR	NR	NR	NR	NR	NR
Monoethanolamine	100	NR	NR	80		NR	NR	110	NR	NR
Monomethylhydrazine	100	NR	NR	NR		NR	NR	NR		NR
Morpholine	100	NR	NR	NR		NR	NR	NR		NR
Motoro Oil	100	210	210	220	210	220	210	200	175	140
Mustard	ALL						210	200	140	
Myristic Acid	ALL	210	200	210		210	210	200	80	

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Naphtha, Aliphatic	100	180	150	200		180	150	150	130	110
Naphtha, Aromatic	100		110	120			110	110	120	
Naphthalene	ALL	180		200	200	220	200			130
Nickel Chloride	ALL	210	200	210	210	220	210	200	140	140
Nickel Nitrate	ALL	210	200	210	210	220	210	200		140
Nickel Sulfate	ALL	210	200	210	210	220	210	200	180	140
Nicotinic Acid (Niacin)	ALL		110				110	110	80	
Nitric Acid	2		200	180		210	210	200	150	150
Nitric Acid	5	150	175	160		175	175	175	150	150
Nitric Acid	15		150	130		150	150	150	120	120
Nitric Acid	35	100		120		140				NR
Nitric Acid	50	NR	110	NR	NR	110	110	110	80	NR
Nitric Acid	Fumes				180	180	180	180	120	
Nitrobenzene	100	NR	NR	NR		NR	NR	NR	NR	NR
Nitrogen Tetroxide	100	NR	NR	NR		NR	NR	NR	NR	NR
Octanoic Acid (Caprylic Acid)	ALL	180	180	200	210	210	200	180	140	
Octylamine, Tertiary	100		110	110		110	110	110	80	
Oil, Sweet or Sour Crude	100	210	210	220	210	220	210	200	175	140

Chemical	Conc.	DION 9100 9102 9300	DION 9800 <small>(Formerly ATLAC 580)</small>	DION 9480	DION 9420	DION 6694	DION 382 <small>(Formerly ATLAC 382)</small>	DION 4010 <small>(Formerly ATLAC 4010)</small>	DION 490 <small>(Formerly ATLAC 490)</small>	DION 6631 DION 400 <small>(Formerly ATLAC 400)</small>
Oleic Acid	ALL	210	200	210	210	220	210	200	175	170
Oleum (Fuming Sulfuric Acid)		NR	NR	NR	NR	NR	NR	NR	NR	NR
Olive Oil	100	210	200	210	210	220	200	200	175	170
Orange Oil	100	210	200	210		220	200	200	175	170
Organic Detergents, pH<12	ALL	160	160	160		180	180	160		100
Oxalic Acid	100	210	200	210		220	210		175	170
Ozone (s4 ppm in water phase)		80	80			80	80			
Palm Oil	100	210	200	210		220	200	200	175	170
Palmitic Acid	100	210	200	220	220	220	210	200	175	170
Pentasodium Tripoly Phosphate	10	210	200	210	210	210	210	200	140	120
Perchloroethylene	100	100	110	110	100	110	110	110	80	NR
Perchloric Acid	10	150		150	150	150	150			NR
Perchloric Acid	30	100		100	100	100	100			NR
Phenol (Carbolic Acid)	5	NR	110	NR	NR	110	110	110	NR	NR
Phenol (Carbolic Acid)	>5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Phenol Formaldehyde Resin	ALL	100	120	120		120	120	120		
Phosphoric Acid	80	210	200	210	210	210	210	200	140	140
Phosphoric Acid Vapor & Condensate		210	180	200	220	210	190	180		170

Chemical	Conc.	DION 9100 9102 9300	DION 9800 <small>(Formerly ATLAC 580)</small>	DION 9480	DION 9420	DION 6694	DION 382 <small>(Formerly ATLAC 382)</small>	DION 4010 <small>(Formerly ATLAC 4010)</small>	DION 490 <small>(Formerly ATLAC 490)</small>	DION 6631 DION 400 <small>(Formerly ATLAC 400)</small>
Phosphorous Trichloride		NR	NR	NR	NR	NR	NR	NR	NR	NR
Phthalic Acid	100	210	200	210		210	210	200	170	170
Phthalic Anhydride	100	210	200	210	210	210	210	200	170	170
Picric Acid (Alcoholic)	10		110	110		110	110	110	80	NR
Pine Oil	100		150			150	150	150		NR
Pine Oil Disinfectant	ALL		120			120	120	120	120	NR
Piperazine Monohydrochloride			110			110	110	110	80	
Plating Solutions - Cadmium Cyanide			200			210	210	200	80	
Plating Solutions, Chrome		120				130			80	NR
Plating Solutions, Gold			200			210	210	200	140	
Plating Solutions, Lead			200			210	210	200	80	
Plating Solutions, Nickel			200		180	210	210	200	140	
Plating Solutions, Platinum			180			180	180	180	80	
Plating Solutions, Silver			200			210	210	200	140	
Plating Solutions, Tin Fluoborate			200		200	210	210	200	80	
Plating Solutions, zinc Fluoborate			200		200	210	210	200	80	
Polyphosphoric Acid (115%)		210	200	210		210	210	200	140	140
Polyvinyl Acetate Adhesive	ALL		120	120		120	120	120		

Chemical	Conc.	DION 9100 9102 9300	DION 9800 <small>(Formerly ATLAC 580)</small>	DION 9480	DION 9420	DION 6694	DION 382 <small>(Formerly ATLAC 382)</small>	DION 4010 <small>(Formerly ATLAC 4010)</small>	DION 490 <small>(Formerly ATLAC 490)</small>	DION 6631 DION 400 <small>(Formerly ATLAC 400)</small>
Polyvinyl Acetate Emulsion	ALL	120	150	140	140	140	150	150	120	120
Polyvinyl Alcohol	ALL	120	150	120	120	150	150	150	80	80
Potassium Aluminum Sulfate	ALL	210	200	220	220	220	210	200	170	170
Potassium Amyl Xanthate	5		150			150	150	150	140	
Potassium Bicarbonate	10	150	160	150	150	170	160	160	80	
Potassium Bicarbonate	50	140	140	140	180	140	140	140	80	
Potassium Bromide	ALL	210	200		210	210	210	200	150	150
Potassium Carbonate	10	150	150	150	160	180	150	150	80	80
Potassium Carbonate	50	140			150	140	110	110	NR	NR
Potassium Chloride	ALL	210	200	210	210	220	210	200	175	170
Potassium Dichromate	ALL	210	200	210	210	220	210	200	170	170
Potassium Ferricyanide	ALL	210	200	210	210	220	210	200	140	130
Potassium Ferrocyanide	ALL	210	200	210	210	220	210	200	140	130
Potassium Hydroxide	10	150	150	150		150	150	150	NR	NR
Potassium Hydroxide	25	110	110	110	140	140	140	110	NR	NR
Potassium Iodide	ALL		150	150		150	150	150	140	
Potassium Nitrate	ALL	210	200	210	210	220	210	200	170	170
Potassium Permanganate	ALL	210	200	210	210	210	210	200	140	80

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Potassium Persulfate	ALL	210	200	210	210	210	210	200	140	80
Potassium Pyrophosphate	60		150	150		150	150	150		
Potassium Sulfate	ALL	210	200	210	210	220	210	200	175	170
Propionic Acid	20	200		200	200					
Propionic Acid	50	180	160	180	180	180	180	160		
Propylene Glycol	ALL	210	200	210	210	220	210	200	175	170
I-Propyl Palmitate	ALL		200	210		210	210	200	175	
Pyridine	100	NR	NR	NR		NR	NR	NR	NR	NR
Quaternary Ammonium Salts	ALL		150			150	150	150	120	
Rayon Spin Bath			150	140		140	140	140	NR	
Salicylic Acid	ALL	140	150	150		150	150	150	140	
Sea Water		210	210	210	210	210	210	200		170
Sebacic Acid	ALL	210			210					
Selenious Acid	ALL	210	180	210	210	210	180	180	140	
Silicic Acid (hydrated silica)	ALL	220				220				170
Silver Cyanide	ALL	200	200	200		210	210	200	140	
Silver Nitrate	ALL	210	200	210	210	220	210	200	170	170
Sodium Acetate	ALL	210	200	210	210	220	210	200	170	170

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Sodium Alkyl Aryl Sulfonates	ALL	180	200	180		210	210	200	80	
Sodium Aluminate	ALL	120	150			150	150	150	140	
Sodium Benzoate	ALL	180	180	180	210	180	180	180	170	170
Sodium Bicarbonate	ALL	180	180	180	180	210	180	180	100	100
Sodium Bifluoride	100	120			120					
Sodium Bisulfate	ALL	210	200	210	210	220	210	200	175	170
Sodium Bisulfite	ALL	210	200	210	210	220	210	200	170	170
Sodium Borate	ALL	210	200	210	210	220	210	200	170	170
Sodium Bromate	5		110	110		110	110	110		
Sodium Bromide	ALL	210	200	210	210	210	210	200	170	170
Sodium Carbonate (Soda Ash)	10	180	180	180	180	180	180	180	80	NR
Sodium Carbonate (Soda Ash)	35	160	160	160	180	160	160	160	NR	NR
Sodium Chlorate	ALL	210	200	210	210	210	210			NR
Sodium Chloride	ALL	210	200	210	210	220	210	200	180	130
Sodium Chlorite	10	160	160	160	150	160	160	160		NR
Sodium Chlorite	50	100	110	100		110	110	110		NR
Sodium Chromate	50	210	200	210	210	220	210	200		
Sodium Cyanide	5	210	200	210	210	220	210	200	140	80

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Sodium Cyanide	15		150		210		150	150	80	
Sodium Dichromate	ALL	210	200	210	210	220	210	200		140
Sodium Diphosphate	100	210	180	210	210	210	200	180		170
Sodium Dodecyl Benzene Sulfonate	ALL		200			210	210	200		
Sodium Ethyl Xanthate	5		150			150	150	150	140	
Sodium Ferricyanide	ALL	210	200	210	210	220	210	200	170	170
Sodium Ferrocyanide	ALL	210	200	210	210	220	210	200	170	170
Sodium Fluoride	ALL	180	180	180	180	180	180			80
Sodium Fluorosilicate	ALL	120	120	120	150	120	120	120		
Sodium Hexametaphosphate	10	150	150	150		150	150	150		
Sodium Hydrosulfide	20	160	180	170	180	180	180	180		
Sodium Hydroxide	1	150	200	140		210	200		NR	NR
Sodium Hydroxide	5	150	150	140		160	150	150	NR	NR
Sodium Hydroxide	10	150	150	140		160	150	150	NR	NR
Sodium Hydroxide	25	150	150	140		160	150	150	NR	NR
Sodium Hydroxide	50	200	200			210	210	200	NR	NR
Sodium Hypochlorite	15	125	125	125	125	125	125	125	NR	NR
Sodium Hyposulfite	20					210	200			170

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Sodium Lauryl Sulfate	ALL	180	160		180	200	160	160		
Sodium Monophosphate	ALL	210	200	210	210	210	200	200		170
Sodium Nitrate	ALL	210	200	210	210	220	210	200	170	170
Sodium Nitrite	ALL	210	200	210	210	220	210	200	170	170
Sodium Oxalate	ALL	180	180	180		200	200	180		
Sodium Persulfate	20		120		130		130	130		
Sodium Polyacrylate	ALL	150	150	150		150	150	150	140	
Sodium Silicate, pH<12	100	210	200	210	210	210	210	200		80
Sodium Silicate, pH>12	100	210	200	210	210	200	210	200		NR
Sodium Sulfate	All	210	200	210	210	220	210	200	180	170
Sodium Sulfide	ALL	210	200	210	210	220	210	200	80	80
Sodium Sulfite	ALL	210	200	210	210	220	210	200	80	80
Sodium Tetraborate	ALL	200			200	210	170	170	170	170
Sodium Thiocyanate	57	180		180	180	180				
Sodium Thiosulfate	ALL	180	150	180	180	150	150	150		140
Sodium Triphosphate	ALL	210	200	210	210	210	210	200	140	120
Sodium Xylene Sulfonate	40		200				210	200	140	80
Sorbitol	ALL	180	180	180	200	200	180		175	170

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Sulfur, Molten			150			250	250	180		
Sulfuric Acid	0-25	210	200	210	210	220	210	200	175	170
Sulfuric Acid	26-50	180	200	180	180	220	210	200	160	140
Sulfuric Acid	51-70	180	190	180	180	180	180	170	100	NR
Sulfuric Acid	71-75	120	110	120	120	120	110	110	NR	NR
Sulfuric Acid	76-93	NR	NR	NR	NR	NR	NR	NR	NR	NR
Sulfuric Acid	Fumes	210	200	200	210	220	210	200	175	170
Sulfuric Acid/Ferrous Sulfate	10/Sat	200	200	200		210	210	200		
Sulfuric Acid/Phosphoric Acid	10/20	180	180	180		180	180	180		
Sulfuryl Chloride	100	NR	NR	NR		NR	NR	NR	NR	NR
Superphosphoric Acid (105% H3P4)	100	210	200	210		210	210	200	140	
Tall Oil	All	150	150	150	150	160	150	150	140	
Tannic Acid	ALL	210	200	210	210	220	210	200	170	170
Tartaric Acid	ALL	210	200	210	210	220	210	200	170	170
Tetrachloroethane	100	NR	NR	NR		NR	NR	NR		NR
Tetrachloroethylene	100	100	110	110	100	110	110	110	80	NR
Tetrachloropentane	100	NR	NR	NR		NR	NR	NR		NR
Tetrachloropyridine		NR	NR	NR		NR	NR			NR

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Trichloromonofluoromethane	All	80	100	80	100	100	100	80		
Trichlorophenol	100	NR	NR	NR		NR	NR	NR		NR
Tridecylbenzene	All		200				210	200		
Tridecylbenzene Sulfonate	All	210	200	210	210	210	210	200	140	
Triethanolamine	ALL		150	120			150	150	120	110
Triethanolamine Lauryl Sulfate	ALL		110				110	110	80	
Triethylamine	ALL		125	120			125	125	80	
Triethylene Glycol	100		180	180			180	180		
Trimethylamine Chlorobromide		NR	NR	NR		NR	NR	NR		NR
Trimethylamine Hydrochloride	ALL	130	130		130	130	130	130	80	NR
Triphenyl Phosphite	ALL					100				NR
Tripropylene Glycol	100		180				180	180		
Trisodium Phosphate	50	175	175	175	190	175	175	175	140	120
Turpentine			150		150	150	150		80	NR
Uranium Extraction			180				180	180		
Urea	All	150	150	150	150	170	150	120	80	120
Vegetable Oils	ALL	210	200	210	210	220	200			170
Vinegar	ALL	210	200	210	210	210	210	200	150	150

Chemical	Conc.	DION 9100 9102 9300	DION 9800 (Formerly ATLAC 580)	DION 9480	DION 9420	DION 6694	DION 382 (Formerly ATLAC 382)	DION 4010 (Formerly ATLAC 4010)	DION 490 (Formerly ATLAC 490)	DION 6631 DION 400 (Formerly ATLAC 400)
Vinyl Acetate	ALL	NR	NR	NR		NR	NR	NR	NR	NR
Vinyl Toluene	100	80	NR	80			NR	NR		NR
Water, deionized	ALL	200	200	210	210	210	210	200	175	170
Water, Distilled	ALL	210	200	210	210	210	210	200	175	160
Water, Sea	ALL	210	210	210	210	210	210	200	175	170
Whiskey	ALL						110	110	80	
White Liquor (pulp mill)	ALL	180	180	180	180		200	180	NR	
Wine	ALL						110	110	80	80
Xylene	NR	NR	NR	100	100	NR	NR	NR	80	NR
Zinc Chlorate	ALL	210	200	210	210	210	210			170
Zinc Chloride	ALL	210	200	210	210	210	210	200	170	170
Zinc Cyanide	ALL			160		180	180	180		
Zinc Nitrate	ALL	210	200	210	210	220	210	200	170	170
Zinc Sulfate	ALL	210	200	210	210	220	210	200	175	170
Zinc Sulfite	ALL	210	200	210	210	220	210			170