

Chemical Agent	Concentration	Temperature °C (°F)
ACIDS		
Acetic	10	71(160)
Acetic	25	66(151)
Acetic	50	60(140)
Acrylic	10	38(100)
Benzenesulfonic	All	24(75)
Benzoic	All	71(160)
Boric	All	71(160)
Caprylic	Sat.	65(149)
Carbonic	Sat.	70(158)
Chloroacetic	25	66(151)
Chromic	3	25(77)
Citric	All	77(171)
Fatty Acids	Sat.	70(158)
Fluoroboric	All	66(151)
Formic	10	65(149)
Formic	25	48(118)
Hydrobromic	10	60(14)
Hydrochloric	5	71(160)
Hydrocyanic	10	25(77)
Hypochlorous	Conc.	27(81)
Lactic	All	77(171)
Levulinic	All	77(171)
Maleic	All	66(151)
Nitric	5	66(151)
Oleic	All	77(171)
Oxalic	All	77(171)
Phosphoric	10	77(171)
Phosphoric	85	77(171)
Phthalic	All	77(171)
Stearic	All	77(171)
Sulphuric	25	77(171)
Tannic	All	77(171)
Tartaric	All	77(171)
Trichloroacetic	50	27(81)

METAL SALTS

Aluminum Chloride		
Hydrated	All	77 (171)
Alum Aluminum	All	77 (171)
Sulphate	All	77 (171)
Ammonium		77 (171)
Chloride Nitrate	All	77 (171)
Phosphate	60	70 (158)
	65	70 (158)
Calcium Chloride	All	77 (171)
Cupric Chloride	All	77 (171)
Sulfate	All	77 (171)

Chemical Agent	Concentration	Temperature °C (°F)
Ferric Chloride	All	77(171)
Ferric Nitrate	All	77(171)
Ferric Sulfate	All	77(171)
Ferrous Chloride	All	77(171)
Lead Acetate	All	77(171)
Magnesium Chloride	All	77(171)
Sulphate	All	77(171)
Nickel Chloride	All	77(171)
Nitrate	All	77(171)
Sulfate	All	77(171)
Potassium Chloride	All	77(171)
Dichromate	All	25(77)
Ferricyanide	All	77(171)
Nitrate	All	77(171)
Permanganate	All	25(77)
Sodium Acetate	All	77(171)
Cyanide	All	77(171)
Chloride	All	77(171)
Ferricyanide	All	77(171)
Silicate	6	32(90)
Stannic Chloride		
Hydrated	All	77(171)
Stannous Chloride	All	77(171)
Zinc Chloride	All	77(171)

ALKALINE SOLUTIONS

Ammonia Aqueous	5	50(122)
Ammonium Hydroxide	20	24(75)
Calcium Hydroxide	Sat	77(171)
Caustic	.	
Phenolic, spent		50(122)
Sulfidic, spent		50(122)
Sodium Hydroxide	5	45(113)
Sulfide	All	25(77)

BLEACHES

Calcium Hypochlorite	Sat	48(118)
Hydrogen Peroxide	.	24(75)
Sodium Hypochlorite	30	
	5.25	48(118)

SOLVENTS

Benzene C	100	26(79)
Tetrachloride	100	48(118)
Ethanol	100	25(77)

Chemical Agent	Concentration	Temperature °C (°F)	Chemical Agent	Concentration	Temperature °C (°F)
SOLVENTS continued			OTHER continued		
Gasoline	100	66(151)	Ethylene glycol	100	66(151)
n-Heptane	100	66(151)	Formaldehyde Fuel	44	59(138)
n-Hexane	100	66(151)	Oil Glycerol	100	59(138)
Kerosene	100	70(158)	Hydraulic Fluid Jet fuel	100	77(171)
Naphtha	100	66(151)		100	25(77)
Toluene	100	25(77)	JP-4	100	25(77)
Xylene	100	25(77)			
OTHER			JP-5	100	25(77)
Alcohol			JP-9	100	25(77)
Amyl	100	32(90)	JP-10	100	25(77)
Butyl	100	26(79)	RJ-4	100	25(77)
Ethyl	100	24(75)	Kerosene	100	70(158)
Isopropyl	100	24(75)	Motor oil	100	77(171)
Methyl	100	24(75)	Naphthalene	100	77(171)
Alkyl Ether			Propylene glycol	100	77(171)
Amine Oxide	100	50(122)	Sea water	All	70(171)
Beer		50(122)	Soaps	All	70(158)
Black Liquor	All	65(149)	Sucrose	All	77(171)
Brine	All	70(158)	Sulfonated detergents	All	25(77)
Camphor	100	24(75)	Sulphur dioxide, gas	All	66(151)
Chlorinated Paraffin	100	25(77)	Turpentine	100	25(77)
Chlorine, wet gas	All	25(77)	Urea	All	66(151)
Crude Oil, Sweet & Sour	100	77(171)	Urea (Nitrate fertilizer)	All	25(77)
C18 - fatty acids	100	70(158)	Vegetable & animal fats & oils	100	66(151)
Deionized water	100	70(158)	Water, tap or distilled	100	77(171)
Diesel fuel	100	66(151)	White liquor		25(77)
Diethylene glycol	100	25(77)			
Epoxidized oils	100	25(77)			
Esters, fatty acids	100	70(158)			

List of tested chemical exposures. The temperatures and/or concentrations shown may not necessarily be the maximum service value.

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