



D – Severe effect,
not recommended
— No data available

Ratings of chemical listed in this chart apply to a 48-hour exposure period.
Cole-Parmer does not warrant (neither expressed nor implied) the accuracy
or completeness of this chart or that any material is suitable for any purpose.

Use suitable guards and/or
protection when handling chemicals

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CHEMICAL	Plastics													Elastomers							Metals							Non metal										
	ABS plastic	Acetal (Delrin®)	CPVC	Epoxy	Hytrel®	HDPE	LDPE	NORYL®	Nylon	Polycarbonate	Polypropylene	PPS (Ryton®)	PTFE (Teflon®)	PVC	PVDF (Kynar®)	Buna N (Nitrile)	EPDM	Hypalon®	PCTFE	Natural rubber	Neoprene	Santoprene®	Silicone	Tygon® (R-3603)	Viton®	304 stainless steel	316 stainless steel	Aluminum	Brass	Bronze	Carpenter 20	Cast iron	Copper	Hastelloy-C®	Titanium	Carbon graphite	Ceramic Al ₂ O ₃	
Acetaldehyde	D	A	D	A	—	C	C	—	A	C ¹	A ¹	A	A	D	D	D	A	C	A	C	C	—	A	D	D	A	A	B	A	A	—	C	—	A	A	A	—	
Acetamide	—	A	—	A	—	A	A	—	A	D	A ¹	A	A	D	C	A	A	B	A	D	B	—	B	D	B	B	A	A	—	D	—	D	—	—	A	—		
Acetate Solvent	—	—	C	A	—	A	A	D	A	D	B ¹	A	A	D	A	C	A	C	A	C	D	C	D	D	D	B	A	A	A	C	A	D	A	A	A	A		
Acetic Acid	D	D	C	C	—	A	A ²	A	D	B ¹	B	A	A	D	C	C	A	C	A	B	C	A	C	D	B	D	B	B	B	D	C	A	D	B	A	A	A	
Acetic Acid 20%	C	C	A	A ¹	—	A	A	A	D	A ¹	A	A	A	D	A	B	A	A	A	B	A	A	B	D	B	B	A	B	D	C	A	D	B	A	A	A	A	
Acetic Acid 80%	D	D	C	B ¹	—	A	D	A	D	B ¹	A	A	A	C	C	C	A	C	A	C	C	C	B	D	B	D	B	B	B	D	C	A	D	B	A	A	A	
Acetic Acid, Glacial	D	D	B ¹	B ¹	A ¹	A	D	A	B	B ¹	A ¹	A	A	D	A ¹	C	B	C	A ²	C	D	D	B	D	D	C	A	B	—	C	A	D	B	A	A	A	A	
Acetic Acid Vapors	—	—	—	D	—	—	—	—	D	—	—	—	A	—	A	A	A	A	—	A	A	—	A	—	A	D	D	D	—	—	—	—	B	A	A	A	—	
Acetic Anhydride	C	D	D	C	C	C	D	D	A	D	B	A	A	D	B	D	B	A	A	C	A	D	C	D	D	D	B	A	A ¹	D	C	B	D	B	A	A	A	
Acetone, 50% water	D	—	—	—	—	—	—	D	—	—	A	A	A	D	A	D	—	A	—	D	D	—	A ²	—	D	B	B	B	A	A	—	—	—	—	A	A	A	—
Acetone	D	A	D	B ¹	B	D	B ¹	D	A	D	A	A	A	D	D	D	A	C	A	C	C	A	D	D	D	A	A	A	A	A	A	A	A	A	A	A	A	
Acetyl Bromide	—	—	—	—	—	—	D	—	D	—	—	—	A	D	—	—	—	—	—	—	—	—	—	D	—	—	—	—	—	—	—	—	—	—	—	—	—	
Acetyl Chloride (dry)	D	D	C	D	—	—	D	D	B	D	D	A	A	C	A ²	D	D	D	A	D	D	A	C	D	A	A	A	A	D	D	—	B	B	—	—	—	—	
Acetylene	—	A	C	A	A	—	D	—	A	D	A ¹	A	A	A ¹	A	B	A	B	A	B	B	—	B	A ¹	A	A	A	A	B	C	A	A	A	A	A	B	—	
Acrylonitrile	D	—	A	A	—	A	A	—	A ¹	D	A ¹	—	A	B ¹	A ¹	D	D	C	—	B ¹	C	D	D	D	D	A	A ¹	B ¹	A	—	A ¹	A ¹	A	A	B	—		
Adipic Acid	—	—	A ²	A	—	A	A	—	—	—	B ²	—	A	A ²	A ²	C	A ²	—	—	A ¹	C	—	—	D	A ²	A	A ²	A	—	—	—	A	D	—	—	A ²	—	
Alcohols: Amyl	A ¹	A	A ²	B ²	A ¹	A	B ²	C	A ¹	B ¹	B ¹	A	A	A ²	A	B	A	A	A	B	A	A	D	D	A	A	A	B	A ¹	A	A	B	A	A	B	A	A	