

Comparison of Chemical & Environmental Properties of Available Vapor Cleaning Solvents

Rev T - Winter 2017



SOLVENT TYPE =>	ENTRON® AERO Reliance	ENTRON® CE Reliance	SOLVEX® HD FloraChem	FluoSolv® CX NuGenTec	FluoSolv® BA NuGenTec	FluoSolv® DX NuGenTec	FluoSolv® NC786 NuGenTec	FluoSolv® DeFlux NuGenTec	Solstice® PF Honeywell	AERO TRON® Reliance	TCE	t-DCE
CHEMISTRY	>95% n-propyl bromide	92% NPB IPA azeo	DCE HFC	> 80% DCE, HFE azeo	DCE, HFES, IPA azeo	DCE, HFE methanol azeo	HFEcyclopentane azeo	>50% DCE HFC cyclo-pentane methanol	chloro trifluoro propene	>80% DCE, HFC	tri chloro ethylene	trans dichloro ethylene
VOC Content, g/l	1330	1260	815	1035	756	1290	255	528	Exempt	1300	1460	1259
Flash Point °F	None	None	None	None	None	None	None	None	None	None	None	36 °F
Boiling Point, °F	160	154	109	109	109	106	102	99	66	109	188	118
Cleaning Strength	High	High	High	High	Medium	Medium	Low-Medium	Medium	Low	High	High	High
Kb Value	129	129	91	95	88	90	45	60	25	93	129	117
Vapor Pressure 25C mm Hg	139	139	471	388	308	263	525	64	840	395	74	336
Specific Gravity	1.33	1.26	1.25	1.29	1.21	1.29	1.16	1.35	1.26	1.3	1.46	1.26
Relative Cost	Low-Medium	Low-Medium	Low-Medium	Medium	Medium	Medium	High	Medium	High	Medium	Low	N/A
Global Warming (GWP)	0.3	0.3	122	118	< 100	< 30	< 150	< 50	1	140	0.1	0.1
Regulatory Information	US EPA SNAP Approved VOC	US EPA SNAP Approved VOC	t-DCE CERCLA VOC US EPA SNAP	t-DCE CERCLA VOC US EPA SNAP	T-DCE CERCLA VOC	t-DCE CERCLA VOC US EPA SNAP	VOC	VOC, t-DCE CERCLA US EPA SNAP	VOC Exempt	t-DCE CERCLA VOC US EPA SNAP	NESHAP Applies HAP VOC Content	t-DCE CERCLA regulated VOC, FLAM
Exposure Information	18 ppm USEPA <10 ppm ACGIH	18 ppm USEPA <10 ppm ACGIH	200 ppm ACGIH	335 ppm Mfr 200 ppm ACGIH	352 ppm Mfr 200 ppm ACGIH	398 ppm Mfr 200 ppm ACGIH	811 ppm Calculated Mfr	398 ppm Mfr 200 ppm ACGIH	800 ppm Calculated Mfr	200 ppm ACGIH	50 ppm ACGIH	200 ppm ACGIH