**TechTIPS** The latest from Photovac

Volume 2, Number 2



Compound	<b>Response</b>	Compound	<b>Response</b>
	Factor		Factor
Methyl Methacrylate	1.4*	Therminol	000
Monomethylamine	1.3	Toluene	0.5
n-Nonane	1.4*	1,1,1 – Trichloroethane	000
iso-Octane	1.2*	Trichloroethylene (TCE)	0.5
(2,2,4-Trimethylpentane)			
n-Pentane	10.4	1,1,1 – Trichloroethane	000
Phenol	1.1	Triethanolamine	ND
Poylpropylene	0.8	Trimethylamine	0.9
Propane	000	1,2,4-Trimethyl Benzene	2.3
n-Propanol	5.1	1,3,5- Trimethyl Benzene	1.7
Propionaldehyde (Propanal)	14.8	Vinyl Acetate	1.2*
n-Propyl Acetate	3.1	Vinyl Bromide	0.4
Propylene	1.2	Vinyl Chloride (Chloroethylene)	1.7
Propylene Oxide	5.8	Vinylidene Chloride (1,1-DCE)	0.8
Styrene	0.4*	ortho-Xylene	0.5*
Syltherm XLT	9.8	meta-Xylene	0.5*
Tetrachloroethylene	0.5	para-Xylene	0.5*
(Perchloroethylene)			
Tetrahydrofuran	1.5		

The *Photovac 2020* compound Response Factors were determined over the range 0 - 500 PPM, based on a 100 PPM Isobutylene calibration. Isobutylene RF = 1.0. The following formula was used for calculation of Response Factors:

Response Factor =  $\frac{\text{Actual Concentration}}{2020 \text{ Response}}$ 

A Response Factor less than 1.0 indicates a compound response better than that of Isobutylene. A Response Factor greater than 1.0 indicates a lower response than that of Isobutylene.

The following Response Factors are pre-programmed into the memory of the *Photovac 2020*. There is space in the *2020* for up to 15 user-entered Response Factors. Unless otherwise noted, when using Response Factors, results are expected to be accurate to +/- 10 PPM or +/- 25%, whichever is greater.

Standards used for determination of *Photovac 2020* Response Factors were from certified gas cylinders, +/- 2% analytical accuracy.

\* Response Factors for these compounds were determined over the range of 25-250 PPM. Standards were prepared by addition of neat liquid to Ultra Zero Air. When using Response Factors for these compounds, results are expected to be accurate to +/- 15 PPM or +/- 35% whichever is greater.

For further information contact your area representative or Photovac, Inc.

