



Cross-Sensitivity Data

| Cross Sensitive Gas | Formula | Carbon Monoxide | | | Hydrogen Sulphide | | Sulphur Dioxide | | Nitric Oxide | Nitrogen Dioxide | Chlorine | Hydrogen | Hydrogen Cyanide | Hydrogen Chloride | Ammonia | Ozone |
|---------------------|--|-----------------|-----|------|-------------------|-------|-----------------|-------------|--------------|------------------|----------|----------|------------------|-------------------|---------|-------|
| | | 7ETO #1 | 7E | 7E/F | 7HH | 7H | 7SH | 7ST/F | 7NT | 7NDH | 7CLH | 7HYT | 7HCN | 7HL | 7AM | 7OZ |
| Acetaldehyde | CH ₃ CHO | 40 | | | | | | | | | | | | | | |
| Acetone | CH ₃ COCH ₃ | 0 | | | | | | | | | | | | | | |
| Acetylene | C ₂ H ₂ | 340 | 230 | 150 | <1 | 280 | 140 | <1 | <1 | <1 | | | | | 0 | |
| Acrylonitrile | CH ₂ =CHCN | 75 | | | 0 | 0 | 0 | | | | | 15 | | | | |
| Ammonia | NH ₃ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 | 0 | |
| Benzene | C ₆ H ₆ | 0 | | | 0 | 0 | 0 | | | | | | | | | |
| Bromine | Br ₂ | | | | | | | | | 55 | | | | | | |
| Butadiene | CH ₂ =CH.CH=CH ₂ | 170 | | | | | | | | | | | | | | |
| Carbon disulphide | CS ₂ | 140 | | | 0 | | | | | | | | | | | |
| Carbon monoxide | CO | 100 | 100 | 100 | <2 | <2 | <1.5 | 0 | 0 | 0 | <5 | <0.5 | 0 | 0 | 0 | |
| Carbonyl sulphide | COS | 135 | 270 | | 0 | 1.3 | | | | | | | | | | |
| Chlorine | Cl ₂ | | -40 | <10 | -25 | -20 | -60 | -35 | 0 | 90 | 100 | 0 | -50 | -15 | -50 | 60 |
| Dimethyl disulphide | (CH ₃) ₂ S ₂ | | | | | | | | | | | | | | | |
| Dimethyl sulphide | (CH ₃) ₂ S | 150 | | | 10 | 10 | 0 | | | | | | | | | |
| Epichlorohydrin | C ₂ H ₅ OCl | 50 | | | | | | | | 0 | | | | | | |
| Ethanol | C ₂ H ₅ OH | 180 | | | | | | | | | | | | | 0 | |
| Ethyl acetate | CH ₃ COOC ₂ H ₅ | (15) | | | | | | | | | | | | | | |
| Ethylene | C ₂ H ₄ | 220 | 90 | 75 | 0 | 0 | 2 | 0 | 0 | 0 | 75 | 0.5 | | 0 | 0 | |
| Ethylene oxide | CH ₂ CH ₂ O | 275 | | | | | | | | | | | | | | |
| Formaldehyde | HCHO | 330 | | | 0.3 | 7.3 | | see note #2 | | | | | | | | |
| Hydrazine hydrate | NH ₂ NH ₂ | | | | 0 | 0.3 | | | | | | | | 300 | | |
| Hydrogen | H ₂ | <3 | <60 | <60 | <0.15 | <0.05 | <0.5 | <0.5 | 0 | 0 | 0 | 100 | 0 | 0.015 | 0 | |
| Hydrogen bromide | HBr | | | | | | | | | | | | 65 | | | |
| Hydrogen chloride | HCl | | 5 | <3 | 0 | 0 | 0 | <15 | 0 | 0 | 2 | | 100 | -5 | 0 | |
| Hydrogen fluoride | HF | | | | | | | | | | | | <2 | | | |
| Hydrogen cyanide | HCN | | 40 | <15 | 0 | 0 | <45 | <50 | 0 | <1 | 0 | 25 | 100 | 30 | 0 | |
| Hydrogen sulphide | H ₂ S | 565 | 350 | <10 | 100 | 100 | 125 | <1 | 35 | -20 | -20 | <20 | | 45 | 130 | -15 |
| Methanol | CH ₃ OH | 415 | | | 0 | | | | | | | | | | | |
| Methylamine | CH ₃ NH ₂ | 0 | | | 0 | | | | | | | | | 55 | | |
| Methyl bromide | C ₂ H ₅ Br | <5 | | | | | | | | 0 | | | | | | |
| Methyl ethyl ketone | CH ₃ COC ₂ H ₅ | 6 | | | | | | | | | | | | | | |
| Methyl isocyanate | CH ₃ NCO | | | | | | | | | | | 0 | | | | |
| Methyl mercaptan | CH ₃ SH | 275 | | | 40 | 45 | 30 | | | | | | | | | |
| Nitric oxide | NO | 210 | 25 | <30 | <5 | 0 | 0 | 100 | 0 | 0 | 35 | -10 | 0 | 20 | 0 | |
| Nitrogen dioxide | NO ₂ | 25 | -60 | <15 | -20 | -20 | -125 | -100 | 20 | 100 | 120 | 0 | -190 | -10 | 0 | 80 |
| Ozone | O ₃ | -240 | | 0 | -30 | -30 | -125 | -130 | 0 | 140 | 145 | 0 | -200 | -115 | 0 | 100 |
| Phosphine | PH ₃ | | 330 | | 55 | | 400 | <2 | | | | | | | | |
| Phosgene | COCl ₂ | | | | | | | | | 0 | | | | | | |
| Sulphur dioxide | SO ₂ | 100 | 65 | <10 | 15 | <20 | 100 | 100 | 5 | <-0.5 | 0 | 2 | 160 | 20 | 70 | 0 |
| Sulphuryl fluoride | | | | | | | 0 | | | 0 | | | | | | |
| Tetrachloroethylene | CCl ₂ =CCl ₂ | <5 | | | | | | <5 | | | | | | | | |
| Thiophane | C ₄ H ₆ S | 45 | | | 0 | 0 | 0 | | | | | | | | | |
| Thionyl chloride | SOCl ₂ | (330) | | | | | 210 | | | 0 | | | | | | |
| Toluene | C ₆ H ₅ CH ₃ | 20 | 50 | | | | | | | | | | | | | |
| Trichloromethane | CHCl ₃ | - | | | | | | | | | | | | | | |
| Vinyl acetate | CH ₃ COOCH=CH ₂ | 200 | | | | | | | | | | | | | | |
| Vinyl chloride | CH ₂ =CHCl | 200 | | | | | | | | | | | | | | |

#1 Cross sensitivity figures for the 7ETO are given relative to Carbon Monoxide rather than to Ethylene Oxide. These figures are indicative of the relative response of a high output biased, unfiltered CO sensor.

The 7ETO has a cross-sensitivity to Carbon Monoxide of ≈40% (relative to its response to Ethylene Oxide)

#2 Formaldehyde may temporarily inhibit the operation of Nitric Oxide CiTiceLs

This table is given as a guide only. No responsibility can be accepted for errors!