

# HIGH PURITY CHEMICALS FOR SEMICONDUCTOR

## LIQUID SOURCES

### Trans 1,2-Dichloroethylene (DCE)

**Specification:** Purity (Trace Metals) 99.99995+%\*

Rev. Date 7/92

Assay	99.95% minimum
Al	2 ppb maximum
Ag	1 ppb maximum
As	1 ppb maximum
Au	1 ppb maximum
B	1 ppb maximum
Ba	1 ppb maximum
Bi	1 ppb maximum
Ca	2 ppb maximum
Co	1 ppb maximum
Cr	1 ppb maximum
Cu	1 ppb maximum
Fe	2 ppb maximum
Ga	1 ppb maximum

Hg	1 ppb maximum
K	2 ppb maximum
Li	1 ppb maximum
Mg	1 ppb maximum
Mn	1 ppb maximum
Na	2 ppb maximum
Ni	1 ppb maximum
P	1 ppb maximum
Pb	1 ppb maximum
Sb	1 ppb maximum
Si	1 ppb maximum
Sn	1 ppb maximum
Sr	1 ppb maximum
Ti	1 ppb maximum
Zn	1 ppb maximum

#### Delivery Hardware:

Hong Kong Specialty Gases offers our ULSI Grade DCE in industry standard quartz bubblers. High purity quartz bubblers are available in 500, 1000, and 1500cc sizes. These bubblers are offered with dual-sealing teflon valves for the inlet and outlet (1/4" or 3/8"). Our quartz bubblers come standard with a clear safety coating to protect against spillage upon breakage and are equipped with dip tubes with multiple angle laser cut holes for improved carrier gas saturation.

#### Physical Properties:

FORMULA	C <sub>2</sub> Cl <sub>2</sub> H <sub>2</sub>
Boiling Point	48.0°C
Melting	-50.0°C
Density	1.257 g/ml
Vapor Density	3.67 (Air=1)
Vapor Pressure	See chart Below
Molecular Weight	96.94
Flash Point	43°F

#### Vapor Pressure:

