



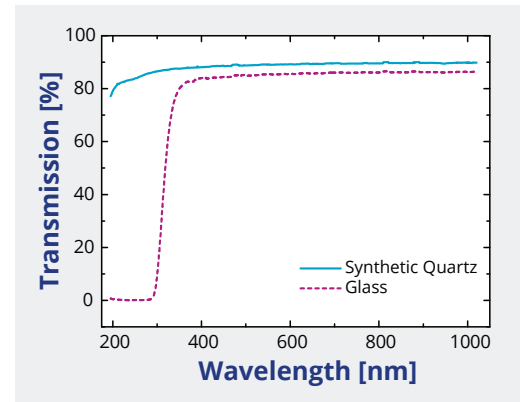
# Optical Glass and Quartz Cuvettes

- **High Quality Glass Cuvettes affordably priced**
- **Standard Quartz Cuvettes for \$39 each**
- **Now offering an expanded line of standard, self-masking, and flow cuvettes!**

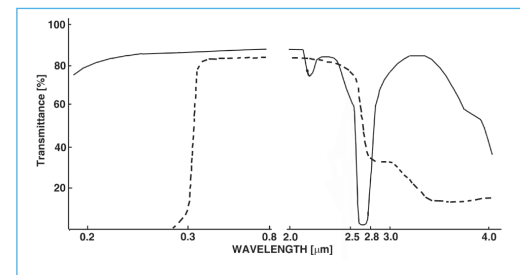
WPI's glass and synthetic quartz cuvettes are ideal for UV/VIS/NIR absorbance or fluorescence experiments.

Synthetic quartz can be used in deep UV applications and is recommended for fluorescent applications, as it does not exhibit background fluorescence. Quartz cuvettes (absorbance, fluorescence and flow) are shipped individually packaged, glass cuvettes are shipped in packages of 10 cuvettes. These economic quartz and glass cuvettes are ideal for precision measurements because of their high quality materials used and their low manufacturing tolerances. Typical transmission curves of glass and synthetic quartz cuvettes are shown in Fig. 1 (cuvettes were empty, thickness 1.25 mm x 2, including surface reflections, measured with a TIDAS II against air as reference).

A complete transmission spectrum from 190 nm to 4 mm is shown in Fig. 2 (cuvettes were empty, thickness 1.25 mm x 2, including surface reflections).



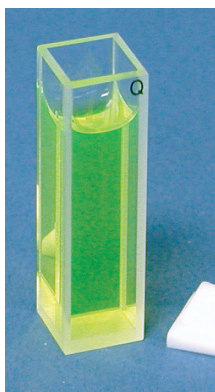
*Transmission curves of glass and synthetic quartz cuvettes*



*Complete transmission curves of glass and synthetic quartz cuvettes*

## TECHNICAL CHARACTERISTICS

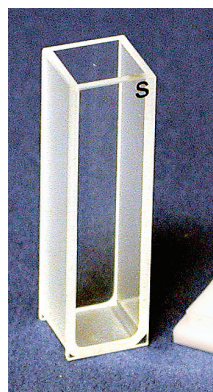
| Cuvette Material | Spectral Range (>80%) | Transmission Difference Between Different Cuvettes |
|------------------|-----------------------|--|
| Optical Glass    | 350 – 2500 nm         | Less than 1%                                       |
| Synthetic Quartz | 200 – 2500 nm         | Less than 1%                                       |



Style A



Style B



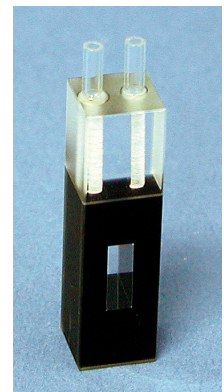
Style C



Style D



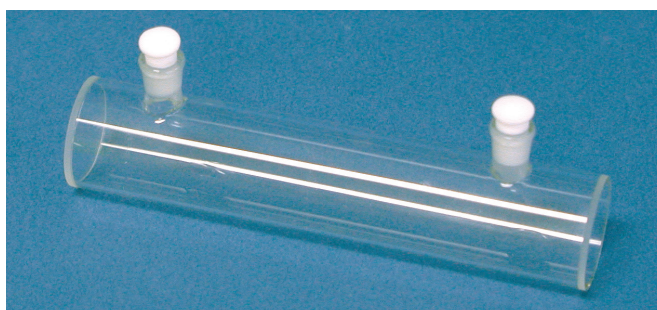
Style E



Style F

# Optical Glass and Quartz Cuvettes

| WPI PN  | Style | Material      | Polished Windows | Path [mm] | Dimensions [mm] | Volume [mL] | Beam Width [mm] |
|---|-------|---------------|------------------|-----------|-----------------|-------------|-----------------|
| <b>standard rectangular cuvettes</b>  |       |               |                  |           |                 |             |                 |
| <b>CUV2101-1*</b>   | B     | Quartz        | 2                | 1         | 3.5x12.5x45     | 0.35        | 10              |
| <b>CUV2102-1*</b>   | B     | Quartz        | 2                | 2         | 4.5x12.5x45     | 0.7         | 10              |
| <b>CUV2011-1*</b>   | B     | Quartz        | 2                | 5         | 7.5x12.5x45     | 1.7         | 10              |
| <b>CUV1022-10</b>   | C     | Optical Glass | 2                | 10        | 12.5x12.5x45    | 3.5         | 10              |
| <b>CUV2012-1</b>  | C     | Quartz        | 2                | 10        | 12.5x12.5x45    | 3.5         | 10              |
| <b>CUV2105-1</b>  | C     | Quartz        | 2                | 20        | 22.5x12.5x45    | 7           | 10              |
| <b>CUV2106-1</b>  | C     | Quartz        | 2                | 30        | 32.5x12.5x45    | 10.5        | 10              |
| <b>CUV2107-1</b>  | C     | Quartz        | 2                | 40        | 42.5x12.5x45    | 14          | 10              |
| <b>CUV2108-1</b>  | C     | Quartz        | 2                | 50        | 52.5x12.5x45    | 17.5        | 10              |
| <p>*89341 Cuvette spacer for 1-mm cuvettes (part CUV2101-1)<br/>           *89342 Cuvette spacer for 2-mm cuvettes (part CUV2102-1)<br/>           *89337 Cuvette spacer for 5-mm cuvettes (part CUV2011-1, CUV2023-1, CUV2063-1)</p> |       |               |                  |           |                 |             |                 |
| <b>Self masking Semi micro Cell Cuvette</b>   |       |               |                  |           |                 |             |                 |
| <b>CUV2023-1*</b>   | D     | Quartz        | 2                | 5         | 7.5x12.5x45     | 0.7         | 4               |
| <b>CUV2031-1</b>  | D     | Quartz        | 2                | 10        | 12.5x12.5x45    | 1.4         | 4               |
| <b>CUV2025-1</b>  | D     | Quartz        | 2                | 20        | 22.5x12.5x45    | 2.8         | 4               |
| <b>CUV2028-1</b>  | D     | Quartz        | 2                | 50        | 52.5x12.5x45    | 7           | 4               |
| <b>CUV2032-1</b>  | D     | Quartz        | 2                | 10        | 12.5x12.5x45    | 1           | 3               |
| <b>CUV2033-1</b>  | D     | Quartz        | 2                | 10        | 12.5x12.5x45    | 0.7         | 2               |
| <b>CUV2034-1</b>  | D     | Quartz        | 2                | 10        | 12.5x12.5x45    | 0.35        | 1               |
| <b>Self masking continuous flowthrough cell, Z=15 mm</b>  |       |               |                  |           |                 |             |                 |
| <b>CUV2063-1*</b>   | E     | Quartz        | 2                | 5         | 7.4x12.5x45     | 0.035       | Ø 3             |
| <b>CUV2061-1</b>  | E     | Quartz        | 2                | 10        | 12.5x12.5x45    | 0.07        | Ø 3             |
| <b>CUV2065-1</b>  | E     | Quartz        | 2                | 20        | 22.6x12.5x45    | 0.14        | Ø 3             |
| <b>CUV2066-1</b>  | E     | Quartz        | 2                | 30        | 32.6x12.4x45    | 0.21        | Ø 3             |
| <b>CUV2062-1</b>  | F     | Quartz        | 2                | 10        | 12.5x12.5x45    | 0.48        | 4x12            |
| <b>Self masking continuous flow through cell, small input, large output, Z=8.5 mm</b>   |       |               |                  |           |                 |             |                 |
| <b>CUV2614-1</b>  | H     | Quartz        | 2                | 10        | 12.4x12.4x35.6  | 0.03        | Ø 2             |
| <b>Micro Cell with black walls</b>  |       |               |                  |           |                 |             |                 |
| <b>CUV2674-1</b>  | J     | Quartz        | 2                | 10        | 12.5x12.5x45    | 0.05        | 2               |
| <b>Fluorescence</b>   |       |               |                  |           |                 |             |                 |
| <b>CUV2051-1</b>  | A     | Quartz        | 4                | 10        | 12.5x12.5x45    | 3.5         | 10              |
| <b>CUV2052-1</b>  | A     | Quartz        | 4                | 10        | 12.5x12.5x45    | 1.4         | 4               |
| <b>Long Path Cuvette</b>  |       |               |                  |           |                 |             |                 |
| <b>CUV2071-1</b>  | G     | Quartz        | 2                | 100       | 102.5 x 22 Ø    | 28          | 19              |



Style G



Style H



Style J



## WORLD PRECISION INSTRUMENTS

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