

## Laser dyes in 5117.-122

| Abs max [nm] | Fluor max [nm]                 | Dye  |
|--------------|--------------------------------|--|
|              | or ~ means<br>'tunable around' |  |
| 275          | 339                            | p-Terphenyl (=PTP) (1-1, 2-1)                          |
| 405          | 510                            | Coumarin 481 (1-1), Coumarin 152A (1-1)                |
| 350          | ~425                           | Stilbene 3 (2-1)                                       |
| 354          | 435                            | Coumarin 120 (1-1, 3-2)                                |
| 366          | 443                            | Coumarin 2 (2-1)                                       |
| 373          | 450                            | Coumarin 47 (1-1, 2-1)                                 |
| 389          | 465                            | Coumarin 102 (1-1, 3-1)                                |
| 395          | 490                            | Coumarin 307 (1-2, 2-1, 3-3)                           |
| 396          | ~490                           | LD 490 (2-1)   |
| 397          | 510                            | Coumarin 152 (2-1, 3-1)                                |
| 423          | 530                            | Coumarin 153 (1-1, 2-3, 3-3)                           |
| 472          | 644                            | DCM (1-2, 2-1, 3-1)                                    |
| 500          | 740                            | Pyridine 2 (2-2, 3-1)                                  |
| 510          | 535                            | Rhodamine 110 (1-1, 3-2)                               |
| 512          | 530                            | Fluorescein 27 (1-1, 2-1)                              |
| 530          | 556                            | Rhodamine 6G (1-2, 2-5, 3-1), Rhodamine 590 (1-1, 2-5) |
| 550          | 650                            | Phenoxazone 9 (3-1)                                    |
| 552          | 580                            | Rhodamine B (1-1, 2-1, 3-5), Rhodamine 610 (2-1)       |
| 556          | 575                            | Sulforhodamine B (1-1, 2-2), Kiton red 620 (1-1, 2-1)  |
| 570          | ~750                           | Styryl 8 (1-1)   |
| 576          | ~640                           | Rhodamine 640 (1-3, 2-1), Rhodamine 101 (2-2, 3-1)     |
| 578          | ~650                           | Sulforhodamine 101 (1-1)                               |
| 582          | ~660                           | DODCI (also absorber) (1-3)                            |
| 585          | ~840                           | Styryl 9M (1-1)  |
| 601          | 632                            | Cresyl violet (2-1)                                    |
| 627          | 650                            | Oxazine 720 (2-1)                                      |
| 633          | 672                            | Nile blue (2-2)  |
| 643          | ~750                           | LD 700 (2-1)   |
| 646          | 670                            | Oxazine 725 (2-1), Oxazine 1 (1-1)                     |
| 653          | ~760                           | DTDCI (2-1)  |
| 682          | ~810                           | Rhodamine 800 (1-2, 2-1)                               |
| 710          | 745                            | DDI (3-1)  |
| 741          | 778                            | Hexacyanin 3 (3-2), HITCI (1-1, 2-1, 3-1)              |
| 760          | 815                            | DTTCI (2-1)  |
| 795          | 838                            | IR 125 (3-1)   |
| 810          | 860                            | IR 140 (1-2, 3-2)                                      |
| 815          | 850                            | DDCI-4 (3-1)   |

Data from book : "**Lamdachrome Laser Dyes**" (ask FdH for book or digital copy)

Please consult the book for the absorption spectrum, the dye laser range, the solvent etc.

Fluor max : the book stated the Maximum of the Fluorescence

~ : The book only stated the "tunable around" wavelength

Brackets :

First number : number of box (labeled 1,2,3). Second number : the number of bottles of that dye in that box