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## OXAZINE 725 PERCHLORATE

**Synonym:** 3,7-bis(diethylamino)phenoxazin-5-ium perchlorate; Oxazine 1

**Catalog No.:** 07250

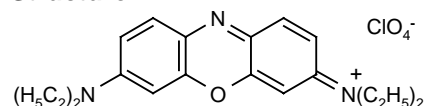
**CAS No.:** 24796-94-9

**Chemical Formula:** C<sub>20</sub>H<sub>26</sub>N<sub>3</sub>O.ClO<sub>4</sub>

**MW:** 423.90

**Appearance:** Green bronzy crystals

**Structure:**



**Lasering Wavelength**

| Max. (nm) | Range (nm) | Pump Source (nm)                          | Solvent                         | Concentration (molar)  | Abs λ-max        | Fl λ-max         |
|-----------|------------|---|---------------------------------|--|------------------|------------------|
| 681       |            | FL→R610(622) <sup>65</sup>                | CH <sub>2</sub> Cl <sub>2</sub> | 4 x 10 <sup>-5</sup>   | 645 <sup>e</sup> | 680 <sup>e</sup> |
| 695       |            | FL→R610(622) <sup>65</sup>                | DMSO                            | 1 x 10 <sup>-4</sup>   |                  |                  |
| 715       |            | FL <sup>27</sup>                          | Ethanol                         |  |                  |                  |
| 725       | 705-745    | FL <sup>11</sup>                          | MeOH/R590                       |  |                  |                  |
| 740       | 720-758    | FL <sup>3</sup>                           | CH <sub>2</sub> Cl <sub>2</sub> | 3.3 x 10 <sup>-5</sup>   |                  |                  |
| 725       | 690-765    | XeCl(308) <sup>114</sup>                  | Methanol                        | 2.4 x 10 <sup>-3</sup>   |                  |                  |
| 730       | 692-751    | XeCl(308) <sup>110</sup>                  | Methanol                        | 1 x 10 <sup>-3</sup>   |                  |                  |
| 734       | 692-768    | XeCl(308) <sup>118</sup>                  | Ethanol                         | 2.1 x 10 <sup>-3</sup>   |                  |                  |
| 742       | 702-772    | XeCl(308) <sup>110</sup>                  | Methanol                        | 2 x 10 <sup>-3</sup>   |                  |                  |
| 735       | 705-758    | XeF(351) <sup>154</sup>                   | Ethanol                         | 5 x 10 <sup>-3</sup> (OX725)+<br>5 x 10 <sup>-3</sup> (R610)     |                  |                  |
| 675       | 657-695    | Nd:YAG(532) <sup>116</sup>                | Methanol                        | 4.9 x 10 <sup>-5</sup> (OX725),<br>9.5 x 10 <sup>-4</sup> (R640) |                  |                  |
| 690       |            | Nd:YAG(532) <sup>33</sup>                 | CH <sub>2</sub> Cl <sub>2</sub> | 4 x 10 <sup>-4</sup>   |                  |                  |
| 690       | 671-712    | Nd:YAG(532) <sup>116</sup>                | Methanol                        | 2 x 10 <sup>-5</sup> (OX725),<br>9.5 x 10 <sup>-4</sup> (R640)   |                  |                  |
| 720       | 695-755    | Nd:YAG(532) <sup>116</sup>                | Methanol                        | 1.2 x 10 <sup>-3</sup> (OX725),<br>6 x 10 <sup>-4</sup> (R640)   |                  |                  |
| 724       | 695-761    | Nd:YAG(532) <sup>53</sup>                 | Methanol                        |  |                  |                  |
| 725       | 705-750    | N <sub>2</sub> (337) <sup>5</sup> Ethanol |                                 | 5 x 10 <sup>-3</sup> (R610),<br>5 x 10 <sup>-3</sup> (OX725)     |                  |                  |
| 730       | 692-751    | N <sub>2</sub> (337) <sup>111</sup>       | Ethanol/DMSO,96/4               | 2.3 x 10 <sup>-3</sup> (OX725),<br>2.5 x 10 <sup>-3</sup> (R610) |                  |                  |
| 730       | 692-751    | N <sub>2</sub> (337) <sup>183</sup>       | DMSO                            | 20mg/20ml  |                  |                  |
| 750       | 736-765    | N <sub>2</sub> (337) <sup>111</sup>       | DMSO                            | 2 x 10 <sup>-2</sup>   |                  |                  |
| 723       | 688-800    | Kr(Red) <sup>68</sup> EG                  |                                 |  |                  |                  |
|           | 687-826    | Kr(647) <sup>71</sup>                     | DMSO/EG,1/3 + COT               | 1 x 10 <sup>-3</sup>   |                  |                  |
| 745       | 645-810    | Kr(647,676) <sup>36b</sup>                | DMSO/EG or G                    | 1.1 x 10 <sup>-3</sup>   |                  |                  |
| 750       | 695-801    | Kr(647,676) <sup>17</sup>                 | EG/DMSO,84/16                   | 6 x 10 <sup>-4</sup>   |                  |                  |
| 729       |            | HeNe(633,20mW) <sup>170</sup>             | EtOH(-35°C)                     | 1.6 x 10 <sup>-3</sup>   |                  |                  |
| 760       | 744-776    | AlGnP (laser diode, 674) <sup>208</sup>   | EG                              | 1.81x10 <sup>-3</sup>  |                  |                  |
| 760       | 750-770    | AlGnP (laser diode, 674) <sup>208a</sup>  | EG                              | 1.81x10 <sup>-3</sup>  |                  |                  |

DMSO = Dimethylsulfoxide; EG = Ethylene Glycol; EtOH = Ethanol; G = Glycerol; COT = Cyclooctatetraene; MeOH = Methanol; CH<sub>2</sub>Cl<sub>2</sub> = Methylene Chloride; e = Ethanol



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