

## SPECIFICATION

### Lawessons Reagent

| Parameters        | Specification                                                                                                                            |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| CAS Number        | 19172-47-5                                                                                                                               |
| Appearance        | Yellow to orange powder                                                                                                                  |
| Molecular Formula | C14H14O2P2S4                                                                                                                             |
| Molecular Weight  | 349.60 g/mol                                                                                                                             |
| Boiling Point     | 260 °C                                                                                                                                   |
| Melting Point     | 110 °C                                                                                                                                   |
| Flash Point       | 150 °C                                                                                                                                   |
| Purity            | 98–99%                                                                                                                                   |
| Refractive Index  | 1.63                                                                                                                                     |
| Solubility        | Soluble in dichloromethane and toluene; insoluble in water                                                                               |
| Uses              | Thionation of carbonyl compounds to thiocarbonyls; conversion of ketones and aldehydes to thioketones; general organic synthesis reagent |

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