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## Typical Product Specifications & Properties

# Sudan I

CAS Number: : 842-07-9

| Specifications        | Limits   |
|-----------------------|--|
| Molecular weight      | 248.28   |
| EINECS                | 212-668-2  |
| SMILES                | <chem>c12c(\N=N\c3ccccc3)c(ccc1ccc2)O</chem>                                     |
| InChI                 | 1S/C16H12N2O/c19-15-11-10-12-6-4-5-9-14(12)16(15)18-17-13-7-2-1-3-8-13/h1-11,19H |
| InChIKey              | MRQIXHXHHPWVIL-UHFFFAOYSA-N  |
| Melting Point         | 131-133 &deg;C   |
| Stability             | Incompatible with strong oxidizing agents.                                       |
| Storage Temperature   | Amber Vial, Refrigerator, Under Inert Atmosphere                                 |
| Water solubility      | 0.5 g/L (30 °C)  |
| Colour Index          | 12055  |
| log P (octanol-water) | 5.510  |
| Water solubility      | 0.674 mg/L   |





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| Specifications               | Limits                                 |
|------------------------------|--|
| Vapor Pressure               | 7.34E-08 mm Hg                         |
| Atmospheric OH Rate Constant | 1.83E-11 cm <sup>3</sup> /molecule-sec |
| Henry's Law Constant         | 2.62E-11 atm-m <sup>3</sup> /mole      |
| Melting Point                | 134 &deg; C                            |
| Form                         | Powder                                 |
| Color                        | Orange to red or brown                 |



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