

**Dyes for dye-sensitized solar cell (DSC) by ORGANICA® Feinchemie GmbH Wolfen**

Dye	Molecular Structure	CAS No.	Code No.	Short Formula	Remarks
N3		141460-19-7	11060	$RuL_2(NCS)_2$ L = 2,2'-bipyridyl-4,4'-dicarboxylic acid	Absorption max = 536 - 540 nm (DMF) Hydrophilic
N719		207347-46-4	11070	$RuL_2(NCS)_2 \times 2 TBA$ L = 2,2'-bipyridyl-4,4'-dicarboxylic acid TBA = tetra-n-butylammonium	Absorption max = 522 - 530 nm (DMF) Hydrophilic
Z907		871466-65-8	11092	$RuLL'(NCS)_2 \times 1 Na$ L = 2,2'-bipyridyl-4,4'-dicarboxylic acid L' = 2,2'-bipyridyl-4,4'-dinonyl	Absorption max = 522 - 530 nm (DMF) Hydrophobic
C106		1165943-93-0	58310	$RuLL'(NCS)_2 \times 1 Na$ L = 2,2'-bipyridyl-4,4'-dicarboxylic acid L' = 2,2'-bipyridyl-4,4'-bis(5-(hexylthio)2-thienyl)	Absorption max = 547 - 553 nm (DMF) Hydrophobic
K19		N/A	59780	$RuLL'(NCS)_2 \times 1 Na$ L = 2,2'-bipyridyl-4,4'-dicarboxylic acid L' = 2,2'-bipyridyl-4,4'-bis-2-(4-(hexyloxy)phenyl)ethenyl	Absorption max = 542 - 548 nm (DMF) Hydrophobic
PTCDI		112078-08-7	57490		Absorption max = 585 nm (DMF)