

Technical Bulletin

OPTICAL BRIGHTENERS

DAY-GLO Optical Brighteners are recommended for leak detection and product identification when exposed to UV light. These brighteners are highly fluorescent under UV light (black light). They also offer good solubility and thermal stability.

D-298 Columbia Blue (Solvent Soluble)

D-286 Sky Blue

D-282 UV-Blue, Water Soluble:

D-211 Ice Blue

Supplied in dry form, these optical brighteners have broad application in adhesives; colored or uncolored coatings for identification; non-destructive testing of metal parts, and many other varied areas. Recommended usage level is approximately 0.1%. D-298, D-211 and D-286 are recommended for solvent systems and UV-Blue for aqueous systems. D-298, D-211 and D-286 can also be used in plastics such as PS, PVC, and PET at temperatures up to 550°F.

Product	Color Index No.	Color In Solution
D-298 Columbia Blue	Fls. Brightener 61	Essentially colorless in daylight. Intense blue under UV light.
D-282 UV-Blue	Stilbene Type	Essentially colorless in daylight. Intense blue under UV light.
D-286 Sky Blue	Fls. Brightener 184	Essentially colorless in daylight. Intense blue under UV light.
D-211 Ice Blue	Fls. Brightener 393	Essentially colorless in daylight. Intense blue under UV light.

Solubility (g/l):

	D-298 Columbia Blue	D-282 UV-Blue	D-286 Sky Blue	D-211 Ice Blue
Acetone	>100	---	2	>100
Methyl Cellosolve	>100	---	---	>100
Isopropanol	>100	---	---	>100
N-Propyl Acetate	>100	---	15	>100
Toluol	>100	---	50	>50
Mineral Spirits	Trace	---	10	Trace
Heptane	Trace	---	---	Trace
Methylene Chloride	>100	---	20	>100
Water	Insoluble	50	Insoluble	Insoluble
Stable at pH	---	4-11	---	---

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