CARGILLE LABORATORIES

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ACRYLIC DOUBLE MATCHING LIQUID CODE 4213295
n (632.8) 25ºC = 1.4900
TYPICAL CHARACTERISTICS

COMPOSITION …….…. Chlorofluorocarbon (does not contain types of CFC Thought to affect ozone), Polybutenes, and Aromatic Hydrocarbons
APPEARANCE ……..….. Colorless liquid
COLOR STABILITY IN DIRECT SUN …….. Slight yellowing after 1 month
INDEX CHANGE RATE BY EVAPORATION …….. NA - expected exposed surface area to volume ratio of 0.2 cm²/cc @ 25ºC for 32 days
ODOR ……. Slight, sweet
POUR POINT ºC ……... NA
BOILING POINT ºC @ 760mm Hg ……. >215
FLASH POINT ºC C.O.C. ……..…….. 212 (415°F)
DENSITY g/cc @ 25ºC ……..…… 1.184
DENSITY TEMP. COEFFICIENT g/cc/ºC …… -0.00079
COEF. OF THERM. EXP. cc/cc/ºC ……..……. 0.00066
VISCOSITY centistokes @ 25ºC ……. 250
SURFACE TENSION dynes/cm @ 25°C …… NA
SOLUBLE: NA
PARTLY SOLUBLE: NA
INSOLUBLE: NA
COMPATIBLE 1 month immersion at 25ºC: Acrylic, Cellulose Acetate, Epoxy, Mylar, Nylon, Polycarbonate, Polyester, Polyethylene, Polypropylene, Polystyrene, Polyurethane, Polyvinyl Chloride, Phenolic,Teflon; Latex, Neoprene, Fluorosilicone (Silastic 730 RTV), Silicone (Sylgard 184, 3140 RTV) Rubbers; Tygon F-4040-A,Tygothane, Copper, Brass, Steel; (tests done on one example of each).
INCOMPATIBLE: Polystyrene and Polyvinyl Toluene
TOXICITY ……..……... None (request SDS)

CAUCHY EQUATION: Refractive index as a function of wavelength at 25ºC

W = wavelength in nm

$n(W) = 1.473749 + (6.5503120E+03) / W^2 + -1.2694420E+07 / W^4$

SOURCE OR SPECTRAL LINE	WAVELENGTH (nm)	REFRACTIVE INDEX 25ºC	% TRANMITTANCE 25º 0.1 mm	1 mm	1 cm
Near UV cut off	320	1.537	100	79	10
i (Hg)	365	1.522	100	99	87
h (Hg)	404.7	1.5133	100	100	97
F' (Cd)	480	1.5019	100	100	99
F (H)	486.1	1.5012	100	100	99
e (Hg)	546.1	1.4956	100	100	100
D (Na:D1, D2 mean	589.3	1.4925	100	100	100
HeNe laser	632.8	1.4900	100	100	100
C' (Cd)	643.9	1.4895	100	100	100
C (H)	656.3	1.4889	100	100	100
Ruby laser	694.3	1.4873	100	100	100
GaAs laser	840	1.4830	100	100	99
Nd: YAG laser	1064.8	1.480	100	100	98
Diode	1300	1.478	100	99	94
Diode	1550	1.476	100	99	89

$n_F - n_C$	=	0.0124
Abbe ν_D: $(n_D - 1)/(n_F - n_C)$	=	39.9
Temp. coef: dn_D/dt 15 - 35ºC	=	NA