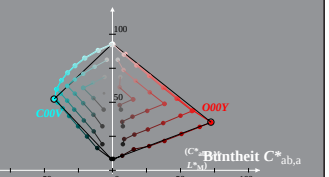
Beziehung CIELAB (L^*, a^*, b^*) und *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{O00Y}=38 /360; h^*_{C00V}=236 /360

$l^*_{lab*}=(L^*-L^*_N)/(L^*_W-L^*_N)$
$a^*_a=a^*-a^*_N-l^*_{lab*}[a^*_W-a^*_N]$
$b^*_a=b^*-b^*_N-l^*_{lab*}[b^*_W-b^*_N]$
$C^*_{ab,a}=[a^{*2}_a+b^{*2}_a]^{1/2}$

Helligkeit L^*

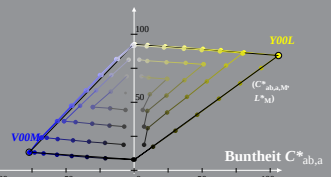


JG980−1 N, 1

Beziehung CIELAB (L^*, a^*, b^*) und *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{Y00L}=96 /360; h^*_{V00M}=305 /360

$l^*_{lab*}=(L^*-L^*_N)/(L^*_W-L^*_N)$
$a^*_a=a^*-a^*_N-l^*_{lab*}[a^*_W-a^*_N]$
$b^*_a=b^*-b^*_N-l^*_{lab*}[b^*_W-b^*_N]$
$C^*_{ab,a}=[a^{*2}_a+b^{*2}_a]^{1/2}$

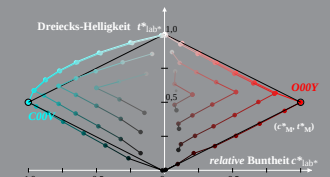
Helligkeit L^*



JG980−2 N, 1

Beziehung *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*) und *relatives* CIELAB (c^*, t^*)
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{O00Y}=38 /360; h^*_{C00V}=236 /360

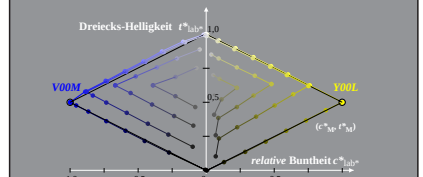
$l^*_M=(L^*_M-L^*_N)/(L^*_W-L^*_N)$
$t^*_{lab*}=l^*_{lab*}-c^*_{lab*}[l^*_M-0{,}5]$
$c^*_{lab*}=C^*_{ab,a}/C^*_{ab,a,M}$
M=Maximalfarbe



JG981−1 N, 1

Beziehung *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*) und *relatives* CIELAB (c^*, t^*)
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{Y00L}=96 /360; h^*_{V00M}=305 /360

$l^*_M=(L^*_M-L^*_N)/(L^*_W-L^*_N)$
$t^*_{lab*}=l^*_{lab*}-c^*_{lab*}[l^*_M-0{,}5]$
$c^*_{lab*}=C^*_{ab,a}/C^*_{ab,a,M}$
M=Maximalfarbe

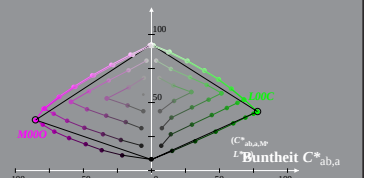


JG981−2 N, 1

Beziehung *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*) und *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{L00C}=151 /360; h^*_{M00O}=354 /360

$l^*_{lab*}=(L^*-L^*_N)/(L^*_W-L^*_N)$
$a^*_a=a^*-a^*_N-l^*_{lab*}[a^*_W-a^*_N]$
$b^*_a=b^*-b^*_N-l^*_{lab*}[b^*_W-b^*_N]$
$C^*_{ab,a}=[a^{*2}_a+b^{*2}_a]^{1/2}$

Helligkeit L^*

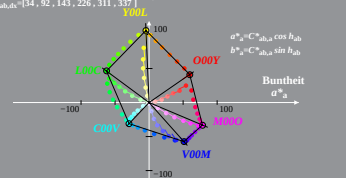


JG980−3 N, 1

Beziehung *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*) und *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*)
System: JG98_FRS09_92_D65_olv*

$l^*_{lab*}=(L^*-L^*_N)/(L^*_W-L^*_N)$
$a^*_a=a^*-a^*_N-l^*_{lab*}[a^*_W-a^*_N]$
$b^*_a=b^*-b^*_N-l^*_{lab*}[b^*_W-b^*_N]$
$C^*_{ab,a}=[a^{*2}_a+b^{*2}_a]^{1/2}$

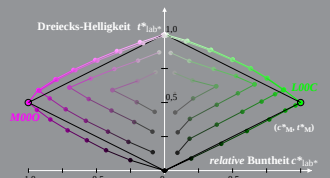
CIELAB-Bunttonwinkel:
$h_{ab,d}$=[34 , 92 , 143 , 226 , 312 , 337]
$h_{ab,dc}$=[34 , 92 , 143 , 226 , 311 , 337]



JG980−4 N, 1

Beziehung *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*) und *relatives* CIELAB (c^*, t^*)
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{L00C}=151 /360; h^*_{M00O}=354 /360

$l^*_M=(L^*_M-L^*_N)/(L^*_W-L^*_N)$
$t^*_{lab*}=l^*_{lab*}-c^*_{lab*}[l^*_M-0{,}5]$
$c^*_{lab*}=C^*_{ab,a}/C^*_{ab,a,M}$
M=Maximalfarbe

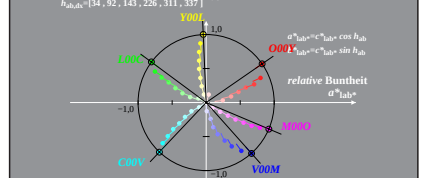


JG981−3 N, 1

Beziehung *adaptiertes (a)* CIELAB ($C^*_{ab,a}$, L^*) und *relatives* CIELAB (c^*, t^*)
System: JG98_FRS09_92_D65_olv*

$l^*_M=(L^*_M-L^*_N)/(L^*_W-L^*_N)$
$t^*_{lab*}=l^*_{lab*}-c^*_{lab*}[l^*_M-0{,}5]$
$c^*_{lab*}=C^*_{ab,a}/C^*_{ab,a,M}$
M=Maximalfarbe

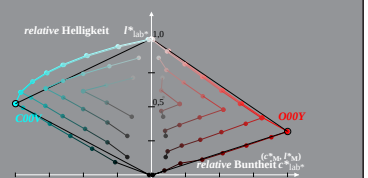
CIELAB-Bunttonwinkel:
$h_{ab,d}$=[34 , 92 , 143 , 226 , 312 , 337]
$h_{ab,dc}$=[34 , 92 , 143 , 226 , 311 , 337]



JG981−4 N, 1

Adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und *relatives* CIELAB (c^*_{lab*}, l^*_{lab*})
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{O00Y}=38 /360; h^*_{C00V}=236 /360

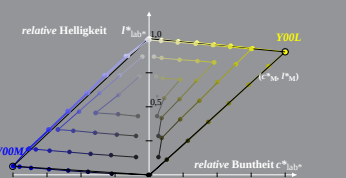
$l^*_{lab*}=(L^*-L^*_N)/(L^*_W-L^*_N)$
$c^*_{lab*}=C^*_{ab,a}/C^*_{ab,a,M}$
M=Maximalfarbe



JG980−5 N, 1

Adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und *relatives* CIELAB (c^*_{lab*}, l^*_{lab*})
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{Y00L}=96 /360; h^*_{V00M}=305 /360

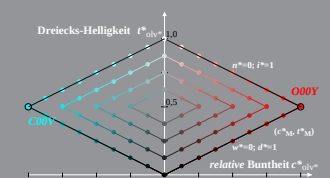
$l^*_{lab*}=(L^*-L^*_N)/(L^*_W-L^*_N)$
$c^*_{lab*}=C^*_{ab,a}/C^*_{ab,a,M}$
M=Maximalfarbe



JG980−6 N, 1

Beziehung *olv** und *relative* Buntheit c^*_{olv*} und Dreiecks-Helligkeit t^*_{olv*}
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{O00Y}=38 /360; h^*_{C00V}=236 /360
Ergebnis: $c^*_{olv*}=c^*_{lab*}$; $t^*_{olv*}=t^*_{lab*}$

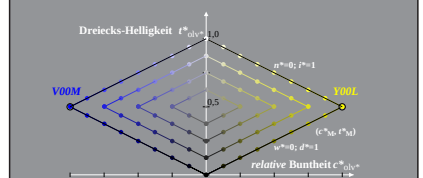
$c^*_{olv*}=\max(olv^*)-\min(olv^*)$
$n^*=1-\max(olv^*)=1-i^*$
$w^*=\min(olv^*)=1-d^*$
$t^*_{olv*}=w^*+0{,}5\,c^*_{olv*}$
M=Maximalfarbe



JG981−5 N, 1

Beziehung *olv** und *relative* Buntheit c^*_{olv*} und Dreiecks-Helligkeit t^*_{olv*}
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{Y00L}=96 /360; h^*_{V00M}=305 /360
Ergebnis: $c^*_{olv*}=c^*_{lab*}$; $t^*_{olv*}=t^*_{lab*}$

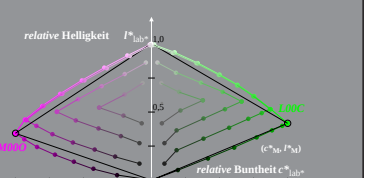
$c^*_{olv*}=\max(olv^*)-\min(olv^*)$
$n^*=1-\max(olv^*)=1-i^*$
$w^*=\min(olv^*)=1-d^*$
$t^*_{olv*}=w^*+0{,}5\,c^*_{olv*}$
M=Maximalfarbe



JG981−6 N, 1

Adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und *relatives* CIELAB (c^*_{lab*}, l^*_{lab*})
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{L00C}=151 /360; h^*_{M00O}=354 /360

$l^*_{lab*}=(L^*-L^*_N)/(L^*_W-L^*_N)$
$c^*_{lab*}=C^*_{ab,a}/C^*_{ab,a,M}$
M=Maximalfarbe

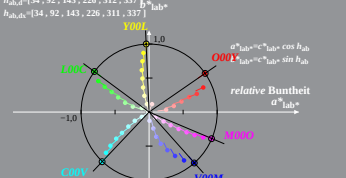


JG981−7 N, 1

Adaptiertes (a) CIELAB ($C^*_{ab,a}$, L^*) und *relatives* CIELAB (c^*_{lab*}, l^*_{lab*})
System: JG98_FRS09_92_D65_olv*

$l^*_{lab*}=(L^*-L^*_N)/(L^*_W-L^*_N)$
$c^*_{lab*}=C^*_{ab,a}/C^*_{ab,a,M}$
M=Maximalfarbe

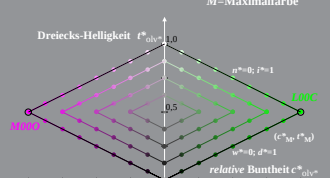
CIELAB-Bunttonwinkel:
$h_{ab,d}$=[34 , 92 , 143 , 226 , 312 , 337]
$h_{ab,dc}$=[34 , 92 , 143 , 226 , 311 , 337]



JG981−8 N, 1

Beziehung *olv** und *relative* Buntheit c^*_{olv*} und Dreiecks-Helligkeit t^*_{olv*}
System: JG98_FRS09_92_D65_olv*
Buntton: h^*_{L00C}=151 /360; h^*_{M00O}=354 /360
Ergebnis: $c^*_{olv*}=c^*_{lab*}$; $t^*_{olv*}=t^*_{lab*}$

$c^*_{olv*}=\max(olv^*)-\min(olv^*)$
$n^*=1-\max(olv^*)=1-i^*$
$w^*=\min(olv^*)=1-d^*$
$t^*_{olv*}=w^*+0{,}5\,c^*_{olv*}$
M=Maximalfarbe

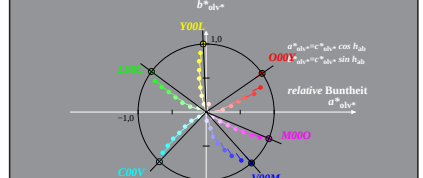


JG981−7 N, 1

Beziehung *olv** und *relative* Buntheit c^*_{olv*} oder Buntheit a^*_{olv*}, b^*_{olv*}
System: JG98_FRS09_92_D65_olv*
Ergebnis: $c^*_{olv*}=c^*_{lab*}$; $t^*_{olv*}=t^*_{lab*}$

$c^*_{olv*}=\max(olv^*)-\min(olv^*)$
$n^*=1-\max(olv^*)=1-i^*$
$w^*=\min(olv^*)=1-d^*$
$t^*_{olv*}=w^*+0{,}5\,c^*_{olv*}$

CIELAB-Bunttonwinkel:



JG981−8 N, 1

JG980−7N: Messung: JG98_FRS09_92_D65_olv*_LUT.DAT, 243 Farben, 090115, Separation olv*, adaptiert