Sigma: F7378

>>**Derivative:** Me ether

CAS Registry Number: 70672-05-8
Molecular Formula: $C_{21}H_{14}O_5$
Molecular Weight: 346.339
Accurate Mass: 346.084125
Percentage Composition: C 72.83%; H 4.07%; O 23.10%
Physical Description: Yellowish cryst. (EtOH)
Melting Point: Mp 272° (266°)

>>**Derivative:** Et ether

CAS Registry Number: 87569-95-7
Molecular Formula: $C_{22}H_{16}O_5$
Molecular Weight: 360.365
Accurate Mass: 360.099775
Percentage Composition: C 73.33%; H 4.48%; O 22.20%
Melting Point: Mp 253-254°

>>**Derivative:** Mono-β-D-galactopyranoside

CAS Registry Number: 102286-67-9

Molecular Formula: $C_{26}H_{22}O_{10}$
Molecular Weight: 494.454
Accurate Mass: 494.1213
Percentage Composition: C 63.16%; H 4.48%; O 32.36%
Use/Importance: Fluorogenic substrate for β-D-galactosidase
Sigma: F4146

>>**Derivative:** Di-β-D-galactopyranoside

CAS Registry Number: 17817-20-8

Molecular Formula: $C_{32}H_{32}O_{15}$
Molecular Weight: 656.596
Accurate Mass: 656.174125
Percentage Composition: C 58.54%; H 4.91%; O 36.55%
Use/Importance: Fluorogenic substrate for β-galactosidase
Fluka: 46941
Sigma: F2756

>>**Variant:** Zwitterionic-form

CAS Registry Number: 518-46-7
Molecular Formula: $C_{20}H_{12}O_5$
Molecular Weight: 332.312
Accurate Mass: 332.068475
Percentage Composition: C 72.29%; H 3.64%; O 24.07%
Physical Description: Yellow amorph. solid
Solubility: Sol. Me_2CO, MeOH; spar. sol. H_2O, EtOH, Et_2O; insol. petrol
Other Data: Changes to red crystalline form at 260-280°

>>**Variant:** Quinonoid-form

CAS Registry Number: 518-45-6
Molecular Formula: $C_{20}H_{12}O_5$
Molecular Weight: 332.312
Accurate Mass: 332.068475
Percentage Composition: C 72.29%; H 3.64%; O 24.07%
Physical Description: Red cryst. powder with green iridescence
Melting Point: Mp 300°
Solubility: Sol. hot formic acid, hot $PhNH_2$, hot Me_2CO, spar. sol. H_2O, EtOH, Et_2O, insol. petrol