



Formula: C₁₂H₂₂O₁₁

MW: 342.3

CAS: 4618-18-2

TNP NUMBER: TNP00564

MDL NUMBER: MFCD08741657

IUPAC: 2-[(3S,4S,2R,5R)-2,5-bis(hydroxymethyl)-4,5-dihydroxyoxolan-3-yloxy](2S,4S,3R,5R,6R)-6-(hydroxymethyl)-2H-3,4,5,6-tetrahydropyran-3,4,5-triol

Smiles:

O1[C@@]([C@H]([C@@H]([C@H]1CO)O)[C@H]1[C@H](O)[C@@H](O)[C@@H](O)[C@H](CO)O1)O)(CO)O

Lactulose 99+%, prepared from lactose

THERAPEUTIC CATEGORY: Laxative

ACCEPTORS: 11

DONORS: 8

ROTATION BONDS: 3

N+O: 11

Chiral Centers: 9

LogP: -7.29

LogS: -0.62

LIPINSKI: 2

Synonyms:

MLS-50;4-0-beta-d-galactopyranosyl-d-fructose;4-o-beta-d-galactopyranosyl-d-fructos;4-o-beta-d-galattopiranosil-d-fruttofuranosio;4-O-D-Galactopyranosyl-D-fructose;bifiteral;cephulac;chronu lac

CAS:4618-18-2

MF:C12H22O11

MW:342.3

EINECS:225-027-7

Product Categories:Sugars, Carbohydrates & Glucosides;Basic Sugars (Mono & Oligosaccharides);Biochemistry;Disaccharides;Sugars;Carbohydrates & Derivatives Lactulose

Chemical Properties: mp ~169 C (dec.) alpha -47 (C=5, H2O, 12HR) density 1,32g/cm refractive index 1,45-1,47 Water Solubility 76.4 G/100 ML (30 C) Merck 5346

CAS DataBase Reference: 4618-18-2(

CAS DataBase Reference:) EPA Substance Registry SystemD-Fructose, 4-O-.beta.-D-galactopyranosyl- (4618-18-2)

Safety Information: Safety Statements 24/25 WGK Germany 2 RTECS LS6965000 Lactulose

Usage And Synthesis:

Chemical Properties: White Powder UsageA laxitive Lactulose

