

Product Information

Isomalt, Purity $\geq 98\%$

Cat. No.: X24-09-YM1295

Size: 50 mg; 100 mg; 200 mg; 500 mg

MDL: MFCD00083636

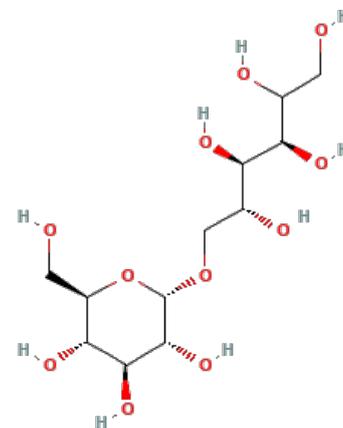
CAS Number: 64519-82-0

Compound CID: 3034828

Synonym: 64519-82-0; Isomaltitol; Palatinitol;

(3*R*,4*R*,5*R*)-6-[(2*S*,3*R*,4*S*,5*S*,6*R*

)-3,4,5-Trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyhexane-1,2,3,4,5-pentol



This product is for research use only and is not intended for diagnostic use.

Product Information

Description	Isomalt is a sugar substitute, a type of sugar alcohol. The molecular weight of the compound is 344.32, and its molecular formula is C ₁₂ H ₂₄ O ₁₁ .
Molecular Weight	344.32
Molecular Formula	C ₁₂ H ₂₄ O ₁₁
IUPAC Name	(3 <i>R</i> ,4 <i>R</i> ,5 <i>R</i>)-6-[(2 <i>S</i> ,3 <i>R</i> ,4 <i>S</i> ,5 <i>S</i> ,6 <i>R</i>)-3,4,5-Trihydroxy-6-(hydroxymethyl)oxan-2-yl]oxyhexane-1,2,3,4,5-pentol
InChI	InChI=1S/C12H24O11/c13-1-4(15)7(17)8(18)5(16)3-22-12-11(21)10(20)9(19)6(2-14)23-12/h4-21H,1-3H2/t4?,5-,6-,7-,8-,9-,10+,11-,12+/m1/s1
InChI Key	SERLAGPUMNYUCK-BLEZHGCSA-N
Canonical SMILES	C(C1C(C(C(C(O1)OCC(C(C(C(CO)O)O)O)O)O)O)O)O)O
Isomeric SMILES	CC[C@H](C)[C@@H](C(=O)N[C@@H](CC1=CN=CN1)C(=O)N2CCC[C@H]2C(=O)N[C@@H](CC3=CC=CC=C3)C(=O)N[C@@H](CC4=CN=CN4)C(=O)N[C@@H](CC(C)C)C(=O)O)NC(=O)[C@H](CC5=CC=C(C=C5)O)NC(=O)[C@H](C(C)C)NC(=O)[C@H](CCCN=C(N)N)NC(=O)[C@H](CC(=O)O)N
Form	Lyophilized powder
Purity	$\geq 98\%$
Impurities	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
Identity	Confirmed by NMR/HPLC/MS.
Stability	In its lyophilized form, the chemical remains stable for 36 months.



Quality Level	Research grade
Applications	Isomalt plays a key role in affecting the digestion and absorption of sugars.
Storage	Store at -20°C, and keep desiccated.
