



PRODUCT DATA SHEET

PENTAERYTHRITOL 98%*Product data*

IUPAC	Pentaerythritol
EINECS/ELINCS	204-104-9
CAS	115-77-5
REACH Reg no.	01-2119473985-20-0013
KKDIK Reg. no.	05-0000324212-10-0000

Chemical composition

Test Item	UM	Specification	Typical analysis	Method	Reference
Main product					
Monopentaerythritol ⁽¹⁾	wt%	98.0 min	99.1	PEN01	
Impurities					
Dipentaerythritol ⁽¹⁾	wt%	1.5 max	0.54	PEN01	
Penta cyclic formal ⁽¹⁾	wt%	1.0 max	0.24	PEN01	
Penta linear formal ⁽¹⁾	wt%	1.0 max	0.12	PEN01	
Ash content ⁽²⁾	wt%	0.005 max	0.003	PEN02	ASTM D2195-00
Humidity	wt%	0.5 max	0.3	PEN04	

Other characteristics

Test Item	UM	Specification	Typical analysis	Method	Reference
Final melting point	°C	257 min	260	PEN07	ASTM E324 – 16 / OECD 102
Phtalic esther color ⁽³⁾	°ALPHA	150 max	100	PEN06	ASTM D2195-00
Oxydril content ⁽⁴⁾	wt%	49.2 min	49.7	PEN01	

Typical grain size

	Specification
Ø over 0.5 mm	10 to 30 %
Ø between 0.2 & 0.5 mm	50 to 65 %
Ø between 0.1 & 0.2 mm	10 to 25 %
Ø between 0.06 & 0.1 mm	1 to 5 %
Ø under 0.06 mm	0.5 to 1 %

Packing:

25 kg net weight paper multiwall bags (on 1,000 or on 1,200 kg shrinkwrapped pallets).

Notes:

- (1) HPLC Chromatografic analysis on the dry sample.
- (2) As sodium sulphate.
- (3) Color of a mixture 1:1 with phtalic anhydride, after melting for 7 min. at 200°C.
- (4) Calculation on chemical analysis results. On request test can be made according to method PEN05 – determination of the hydroxyl content in the pentaerythritols (ASTM E222-17).