L-Mannitol

Inchi: InChI=1S/C6H10O6/c7-1-3(9)5(11)6(12)4(10)2-8/h7-12H,1-2H2
InchiKey: ZSUVQEXDXRKLDH-UHFFFAOYSA-N
Formula: C6H14O6
SMILES: OC[C](O)[C](O)[C](O)[C](O)CO
Mol. weight [g/mol]: 182.17
CAS: 643-01-6

Physical Properties

Property code	Value	Unit	Source
chs	-3037.00	kJ/mol	NIST Webbook
log10ws	2.22		Crippen Method
logp	-1.411		Crippen Method
mcvol	122.020	ml/mol	McGowan Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C643016&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws
McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Legend

chs: Standard solid enthalpy of combustion
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume

Cheméo (https://www.chemeo.com) is the biggest free database of chemical and physical data for the process industry.