4-morpholinepropanesulfonic acid

Other names:	3-(N-morpholino)propanesulfonic acid
	3-morpholinopropane-1-sulfonic acid
Inchi:	InChI=1S/C7H15NO4S/c9-13(10,11)7-1-2-8-3-5-12-6-4-8/h1-7H2,(H,9,10,11)
InchiKey:	DVLFYONBTKHTER-UHFFFAOYSA-N
Formula:	C7H15NO4S
SMILES:	O=S(=O)([O-])CCC[NH+]1CCOCC1
Mol. weight [g/mol]:	209.27

Physical Properties

Property code	Value	Unit	Source
logp	-2.163		Crippen Method
mcvol	148.440	ml/mol	McGowan Method

Sources

Cheméo Relay (1.0):	
Solubility and phase separation of 4-morpholinepropanesulfonic acid (MOPS) and 3-morpholino-2-hydroxypropanesulfonic acid (MOPSO) in aqueous 1,4-dioxane and ethanol solutions:	https://www.doi.org/10.1016/j.jct.2011.05.036
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Chemeo Relay (1.0, beta):	
(Liquid + liquid), (solid + liquid), and (solid + liquid + liquid) equilibria of systems containing cyclic ether (tetrahydrofuran or 1,3-dioxolane), water, and a biological buffer MOPS:	https://www.doi.org/10.1016/j.jct.2014.11.002
Solvation consequences of polymer PVP with biological buffers MES, MOPS, and MOBS in water and in aqueous electrolyte solutions:	https://www.doi.org/10.1016/j.jct.2015.07.022
Volumetric properties of MES, MOPS, MOPSO solutions:	https://www.doi.org/10.1016/j.tca.2010.04.004
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Phase Separation of Alcohol (1-Propanol, 2-Propanol, or tert-Butanol) from Its Aqueous Solution in the Presence of Biological Buffer MOPS:	https://www.doi.org/10.1021/acs.jced.6b00954
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume