

Meglumine

Other names:	N-Methylglucamine D-Glucitol, 1-deoxy-1-(methylamino)- Glucitol, 1-deoxy-1-(methylamino)-, D- Meglumin Methylglucamin Methylglucamine N-Methyl-D-glucamine 1-Deoxy-1-methylaminosorbitol D-(-)-N-Methylglucamine 1-Deoxy-1-(methylamino)-D-glucitol N-Methyl-D(-)-glucamine N-Methylsorbitylamine NSC 52907 NSC 7391 Sorbitol, 1-deoxy-1-methylamino-
Inchi:	InChI=1S/C7H17NO5/c1-8-2-4(10)6(12)7(13)5(11)3-9/h4-13H,2-3H2,1H3
InchiKey:	MBBZMMPHUWSWHV-UHFFFAOYSA-N
Formula:	C7H17NO5
SMILES:	CNCC(O)C(O)C(O)C(O)CO
Mol. weight [g/mol]:	195.21
CAS:	6284-40-8

Physical Properties

Property code	Value	Unit	Source
gf	-596.41	kJ/mol	Joback Method
hf	-916.61	kJ/mol	Joback Method
hfus	25.33	kJ/mol	Joback Method
hvap	119.45	kJ/mol	Joback Method
log10ws	1.29		Crippen Method
logp	-3.358		Crippen Method
mcvol	148.820	ml/mol	McGowan Method
pc	5213.15	kPa	Joback Method
tb	868.87	K	Joback Method
tc	1065.34	K	Joback Method
tf	465.41	K	Joback Method
vc	0.533	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	484.98	J/mol×K	868.87	Joback Method
cpg	492.62	J/mol×K	901.61	Joback Method
cpg	499.79	J/mol×K	934.36	Joback Method
cpg	506.52	J/mol×K	967.10	Joback Method
cpg	512.83	J/mol×K	999.85	Joback Method
cpg	518.76	J/mol×K	1032.59	Joback Method
cpg	524.32	J/mol×K	1065.34	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C6284408&Units=SI

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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