

Myo-inositol, hexaacetate

Other names:	Inositol, hexaacetate, myo-Mesoinositol hexaacetate Hexakis-O-acetyl-myo-inositol meso-inositol, acetylated
Inchi:	InChI=1S/C18H24O12/c1-7(19)25-13-14(26-8(2)20)16(28-10(4)22)18(30-12(6)24)17(29-
InchiKey:	SQUHHTBVTRBESD-UHFFFAOYSA-N
Formula:	C18H24O12
SMILES:	CC(=O)OC1C(OC(C)=O)C(OC(C)=O)C(OC(C)=O)C(OC(C)=O)C1OC(C)=O
Mol. weight [g/mol]:	432.38
CAS:	1254-38-2

Physical Properties

Property code	Value	Unit	Source
gf	-1316.94	kJ/mol	Joback Method
hf	-1931.03	kJ/mol	Joback Method
hfus	56.29	kJ/mol	Joback Method
hvap	109.48	kJ/mol	Joback Method
log10ws	-1.10		Crippen Method
logp	-0.410		Crippen Method
mcvol	298.260	ml/mol	McGowan Method
pc	1445.73	kPa	Joback Method
rinpol	2043.60		NIST Webbook
rinpol	2043.60		NIST Webbook
tb	1065.18	K	Joback Method
tc	1304.11	K	Joback Method
tf	711.76	K	Joback Method
vc	1.115	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1024.39	J/molxK	1065.18	Joback Method
cpg	1028.25	J/molxK	1105.00	Joback Method
cpg	1028.90	J/molxK	1144.82	Joback Method

cpg	1026.21	J/molxK	1184.64	Joback Method
cpg	1020.07	J/molxK	1224.46	Joback Method
cpg	1010.36	J/molxK	1264.28	Joback Method
cpg	996.97	J/molxK	1304.11	Joback Method
dvisc	0.0003354	Paxs	711.76	Joback Method
dvisc	0.0002404	Paxs	770.66	Joback Method
dvisc	0.0001807	Paxs	829.57	Joback Method
dvisc	0.0001410	Paxs	888.47	Joback Method
dvisc	0.0001135	Paxs	947.37	Joback Method
dvisc	0.0000937	Paxs	1006.28	Joback Method
dvisc	0.0000790	Paxs	1065.18	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=C1254382&Units=SI

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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