2-Propanol, 1,3-bis(dimethylamino)-

Other names:	1,3-Bis(dimethylamino)-2-hydroxypropane
	1,3-Bis(dimethylamino)-2-propanol
	1,3-Bis(dimethylamino)isopropanol
	1,3-bis(dimethylamino)propan-2-ol
Inchi:	InChI=1S/C7H18N2O/c1-8(2)5-7(10)6-9(3)4/h7,10H,5-6H2,1-4H3
InchiKey:	JGVZJRHAZOBPMW-UHFFFAOYSA-N
Formula:	C7H18N2O
SMILES:	CN(C)CC(O)CN(C)C
Mol. weight [g/mol]:	146.23
CAS:	5966-51-8

Physical Properties

Property code	Value	Unit	Source
gf	90.36	kJ/mol	Joback Method
hf	-210.26	kJ/mol	Joback Method
hfus	20.49	kJ/mol	Joback Method
hvap	51.55	kJ/mol	Joback Method
log10ws	0.73		Crippen Method
logp	-0.529		Crippen Method
mcvol	135.320	ml/mol	McGowan Method
pc	3107.10	kPa	Joback Method
tb	476.18	K	Joback Method
tc	637.36	K	Joback Method
tf	279.41	K	Joback Method
vc	0.476	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	311.49	J/mol×K	476.18	Joback Method
cpg	324.01	J/mol×K	503.04	Joback Method
cpg	335.98	J/mol×K	529.91	Joback Method
cpg	347.41	J/mol×K	556.77	Joback Method
cpg	358.34	J/mol×K	583.63	Joback Method

cpg	368.77	J/mol×K	610.50	Joback Method
cpg	378.73	J/mol×K	637.36	Joback Method
hvapt	50.30	kJ/mol	402.50	NIST Webbook

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	354.00 ± 1.00	K	2.30	NIST Webbook

Sources

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=C5966518&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
hvapt: Enthalpy of vaporization at a given temperature
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
tbrp: Boiling point at reduced pressure
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume