2-(Dimethyl)amino-2-methylpropane-1,3-diol, dimethyl ether

Other names: 1,3-Dimethoxy-N,N,2-trimethylpropan-2-amine
Inchi: InChI=1S/C8H19NO2/c1-8(6-10-4,7-11-5)9(2)3/h6-7H2,1-5H3
InchiKey: JEIARQGJDZVIQA-UHFFFAOYSA-N
Formula: C8H19NO2
SMILES: COCC(C)(COC)N(C)C
Mol. weight [g/mol]: 161.24

Physical Properties

Property code	Value	Unit	Source
gf	-79.90	kJ/mol	Joback Method
hf	-414.11	kJ/mol	Joback Method
hfus	14.46	kJ/mol	Joback Method
hvap	38.97	kJ/mol	Joback Method
log10ws	-0.03		Crippen Method
logp	0.599		Crippen Method
mcvol	145.300	ml/mol	McGowan Method
pc	2492.52	kPa	Joback Method
rinpol	1051.00		NIST Webbook
tb	436.49	K	Joback Method
tc	609.35	K	Joback Method
tf	259.27	K	Joback Method
vc	0.526	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	315.40	J/mol×K	436.49	Joback Method
cpg	330.12	J/mol×K	465.30	Joback Method
cpg	344.25	J/mol×K	494.11	Joback Method
cpg	357.80	J/mol×K	522.92	Joback Method
cpg	370.78	J/mol×K	551.73	Joback Method
cpg	383.20	J/mol×K	580.54	Joback Method
cpg	395.08	J/mol×K	609.35	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U378709&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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

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
rinpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume