2-[Methyl(amino)]-2-(methyloxymethyl)propane-1,3-dimethyl ether

Other names: 1,3-Dimethoxy-2-(methoxymethyl)-N-methylpropan-2-amine

Inchi: InChI=1S/C8H19NO3/c1-9-8(5-10-2,6-11-3)7-12-4/h9H,5-7H2,1-4H3

InchiKey: SPYDWSGGIWMLSI-UHFFFAOYSA-N

Formula: C8H19NO3

SMILES: CNC(COC)(COC)COC

Mol. weight [g/mol]: 177.24

Physical Properties

Property code	Value	Unit	Source
gf	-206.29	kJ/mol	Joback Method
hf	-560.39	kJ/mol	Joback Method
hfus	17.72	kJ/mol	Joback Method
hvap	45.77	kJ/mol	Joback Method
log10ws	0.27		Crippen Method
logp	-0.116		Crippen Method
mcvol	151.170	ml/mol	McGowan Method
pc	2487.55	kPa	Joback Method
tb	496.64	K	Joback Method
tc	674.02	K	Joback Method
tf	301.69	K	Joback Method
vc	0.561	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	358.51	J/mol×K	496.64	Joback Method
cpg	372.47	J/mol×K	526.20	Joback Method
cpg	385.91	J/mol×K	555.77	Joback Method
cpg	398.84	J/mol×K	585.33	Joback Method
cpg	411.25	J/mol×K	614.89	Joback Method
cpg	423.15	J/mol×K	644.46	Joback Method
cpg	434.53	J/mol×K	674.02	Joback Method

Sources

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=U378703&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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