Diethylamine, 2,2'-dimethoxy-1,1'-dimethyl-

Inchi: InChI=1S/C8H19NO2/c1-7(5-10-3)9-8(2)6-11-4/h7-9H,5-6H2,1-4H3
InchiKey: YQLOJDAYYHBIKS-UHFFFAOYSA-N
Formula: C8H19NO2
SMILES: COCC(C)NC(C)COC
Mol. weight [g/mol]: 161.24
CAS: 90225-75-5

Physical Properties

Property code	Value	Unit	Source
gf	-109.01	kJ/mol	Joback Method
hf	-429.98	kJ/mol	Joback Method
hfus	16.91	kJ/mol	Joback Method
hvap	43.88	kJ/mol	Joback Method
log10ws	-0.76		Crippen Method
logp	0.646		Crippen Method
mcvol	145.300	ml/mol	McGowan Method
pc	2522.65	kPa	Joback Method
tb	476.57	K	Joback Method
tc	651.67	K	Joback Method
tf	247.04	K	Joback Method
vc	0.542	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.53	J/mol×K	476.57	Joback Method
cpg	344.36	J/mol×K	505.75	Joback Method
cpg	357.73	J/mol×K	534.94	Joback Method
cpg	370.63	J/mol×K	564.12	Joback Method
cpg	383.08	J/mol×K	593.30	Joback Method
cpg	395.06	J/mol×K	622.48	Joback Method
cpg	406.57	J/mol×K	651.67	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C90225755&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume