DIMETHYLAMINOACETALDEHYDE DIMETHYL ACETAL

Other names: Ethanamine, 2,2-dimethoxy-N,N-dimethyl-
2,2-Dimethoxy-N,N-dimethylethanamine
2,2-dimethoxyethyl(dimethyl)amine

Inchi: InChI=1S/C6H15NO2/c1-7(2)5-6(8-3)9-4/h6H,5H2,1-4H3

InchiKey: HUYAEQCJNXODLQ-UHFFFAOYSA-N

Formula: C6H15NO2

SMILES: COC(CN(C)C)OC

Mol. weight [g/mol]: 133.19

Physical Properties

Property code	Value	Unit	Source
hfus	13.17	kJ/mol	Joback Method
ie	8.37	eV	Cheméo Relay (1.0)
logp	0.167		Crippen Method
mcvol	117.120	ml/mol	McGowan Method
tb	406.40	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	232.06	J/mol×K	393.52	Joback Method
cpg	243.55	J/mol×K	421.49	Joback Method
cpg	254.72	J/mol×K	449.47	Joback Method
cpg	265.55	J/mol×K	477.44	Joback Method
cpg	276.05	J/mol×K	505.42	Joback Method
cpg	286.20	J/mol×K	533.39	Joback Method
cpg	296.02	J/mol×K	561.37	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source

tbrp	353.70	K	14.90	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C38711205&Units=SI
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
hfus:	Enthalpy of fusion at standard conditions
ie:	Ionization energy
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
tb:	Normal Boiling Point Temperature
tbrp:	Boiling point at reduced pressure